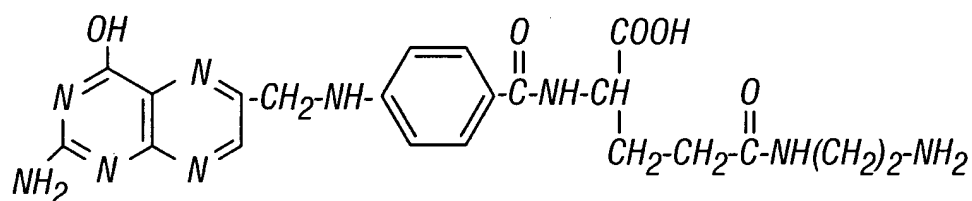
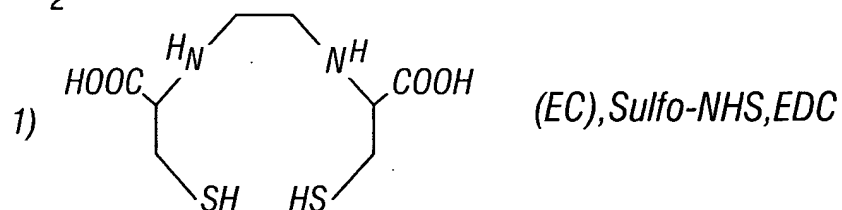


Folic Acid

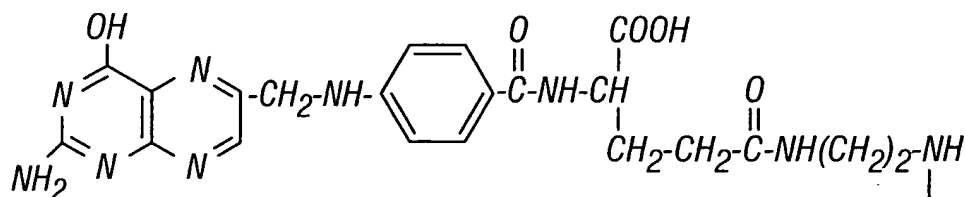
*Ethylenediamine
EEDQ*



Folate NH₂



2) $\text{Na}^{99\text{m}}\text{TcO}_4 / \text{SnCl}_2$



$^{99\text{m}}\text{Tc}$ -EC-folate

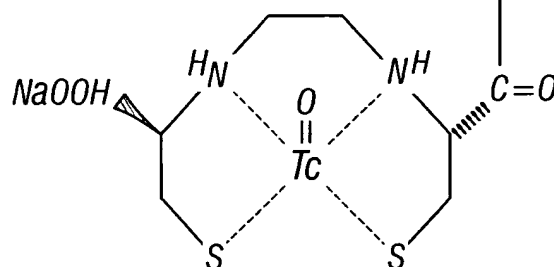
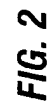


FIG. 1

BEST AVAILABLE COPY



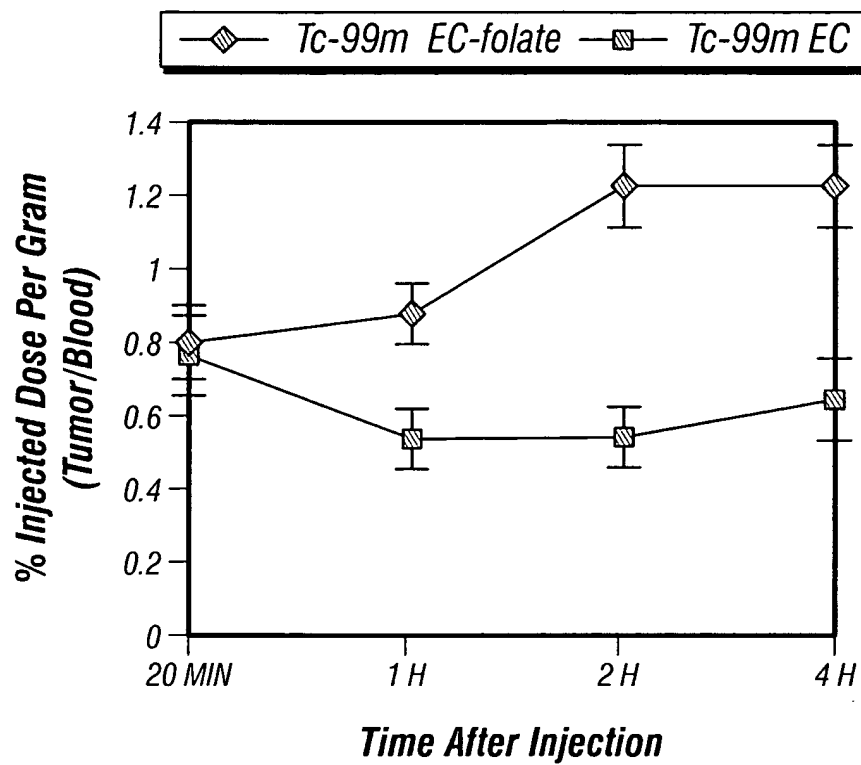


FIG. 4

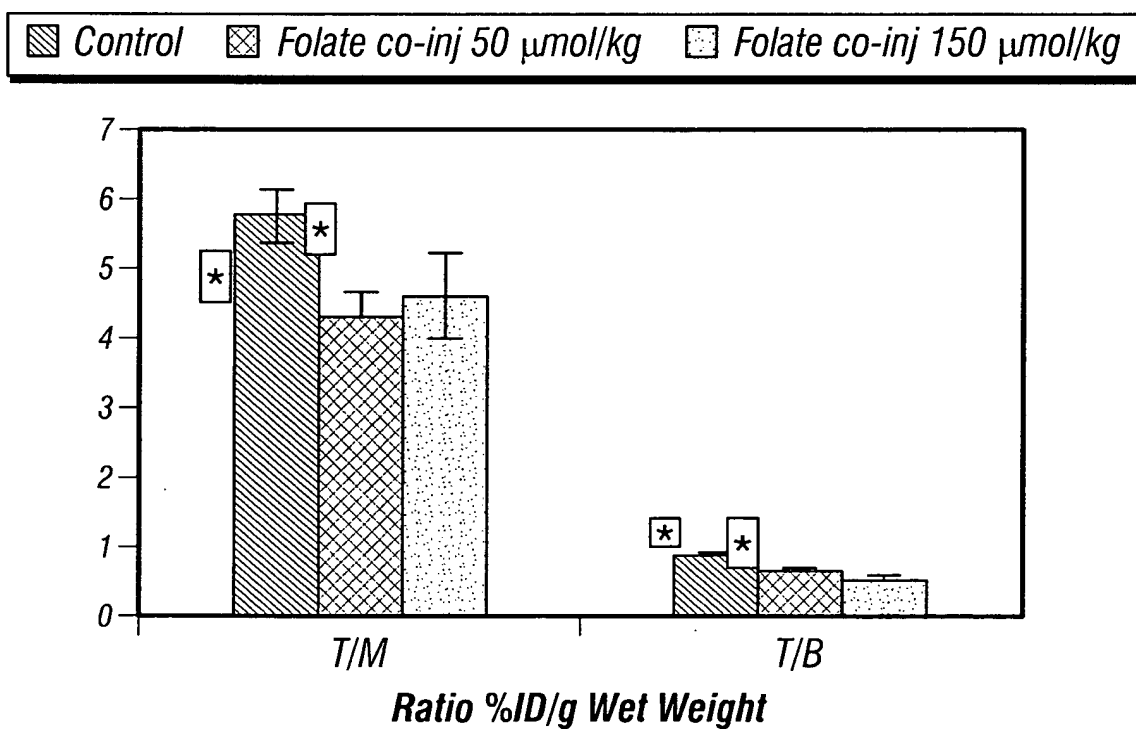


FIG. 5

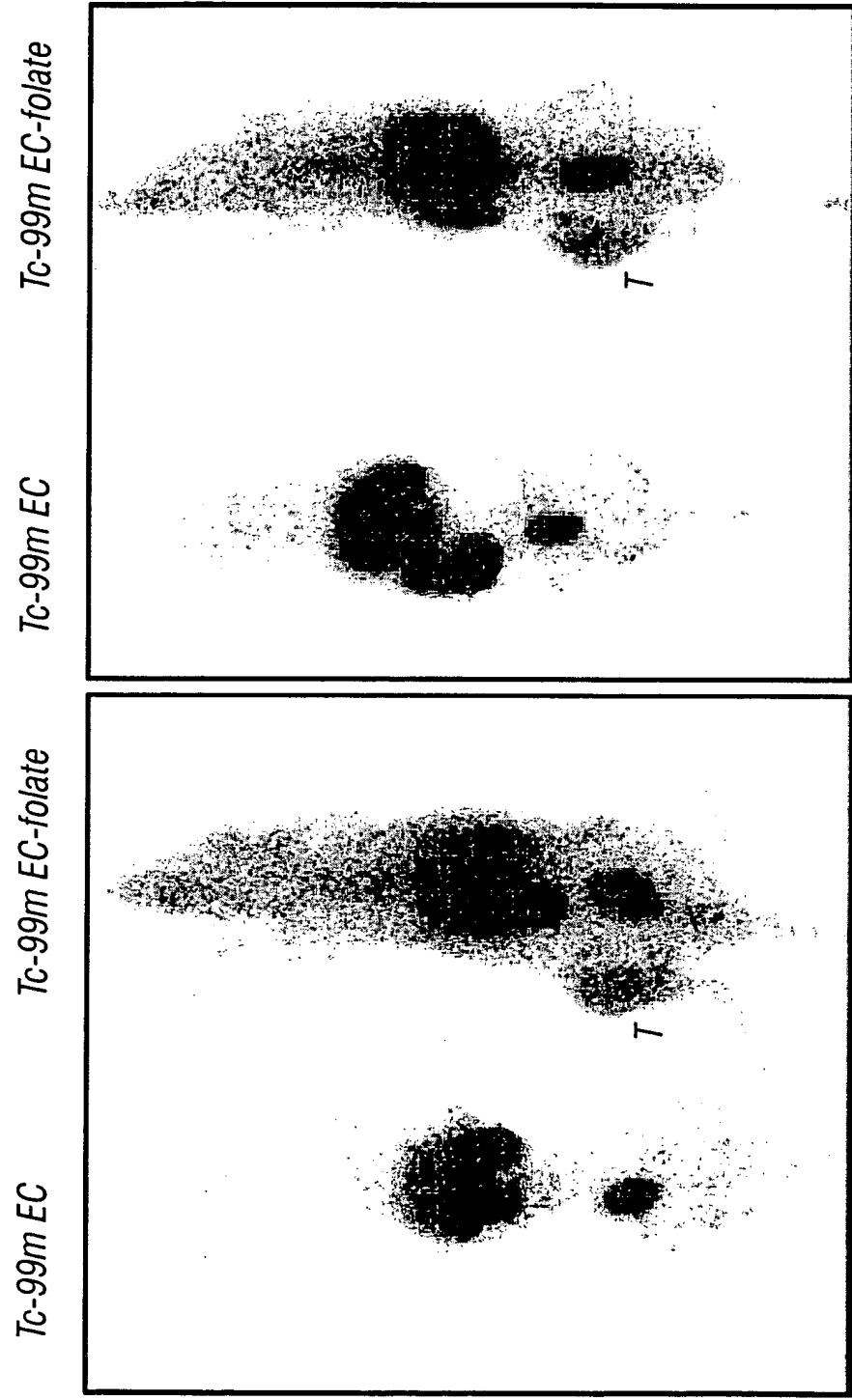


FIG. 6A

FIG. 6B

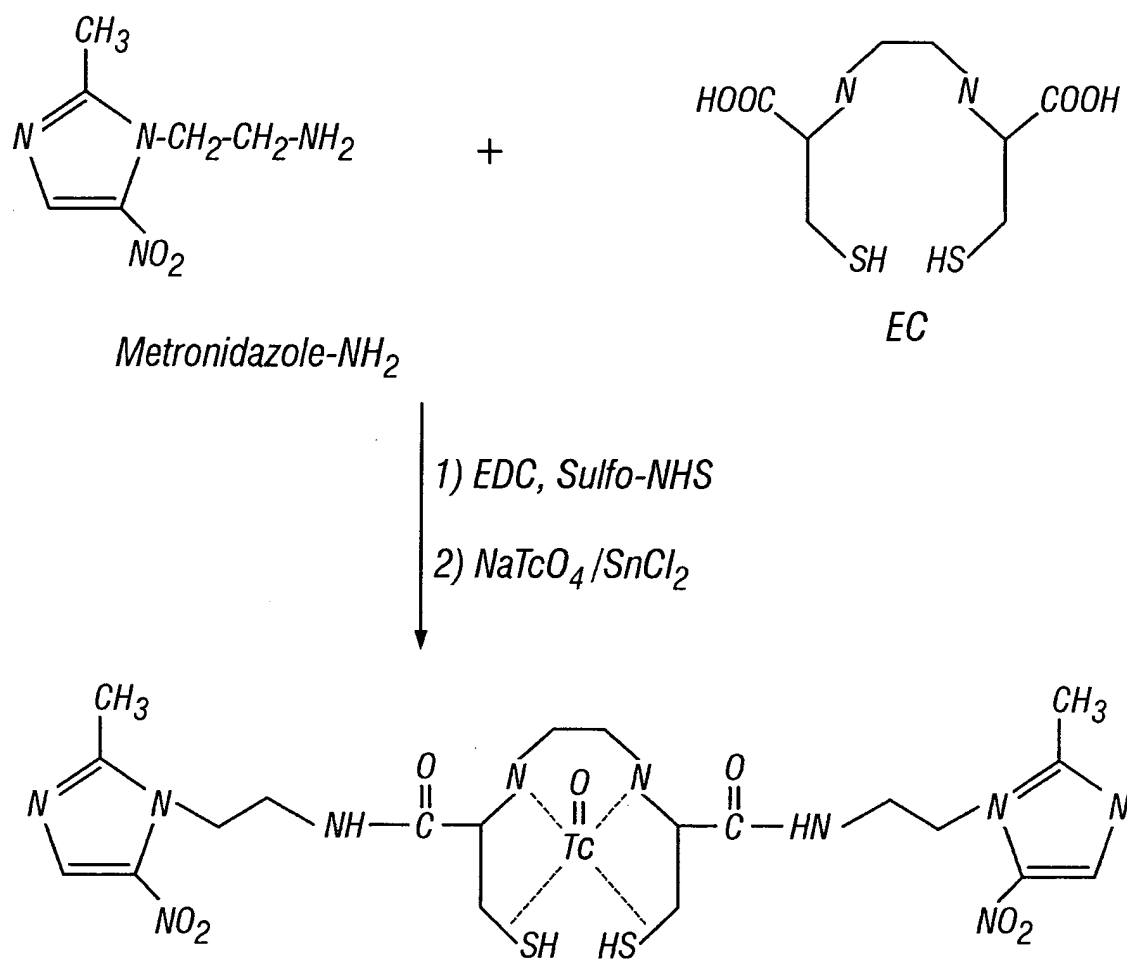


FIG. 7

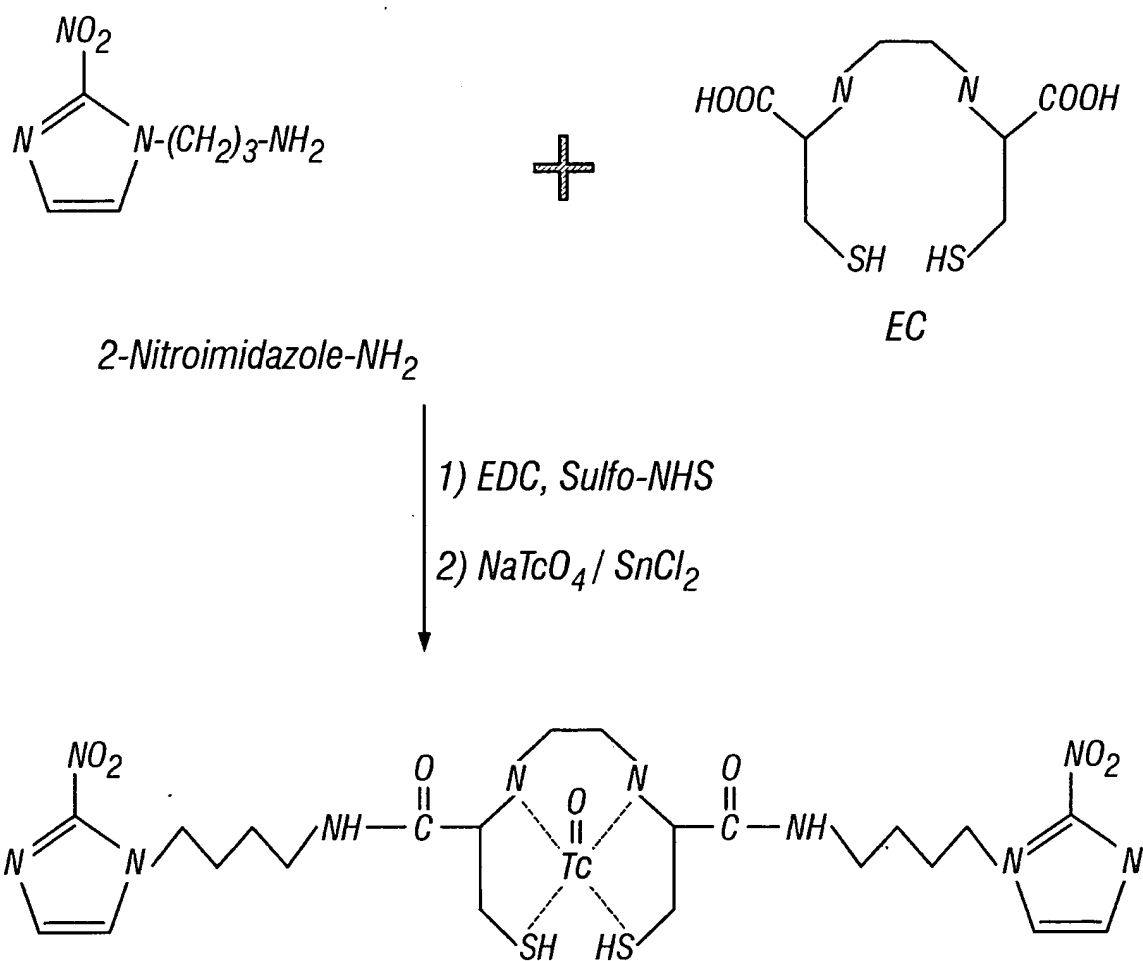
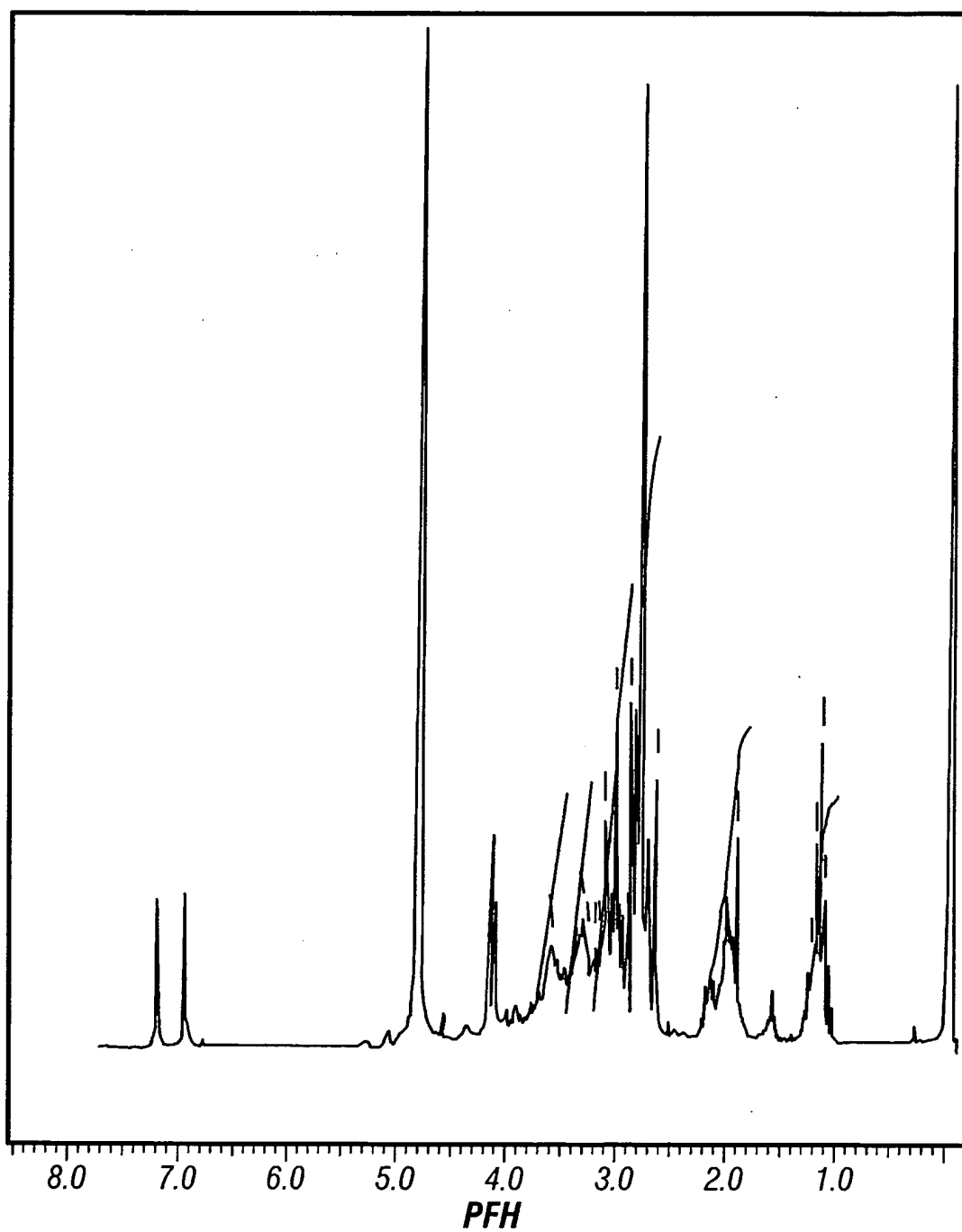


FIG. 8A



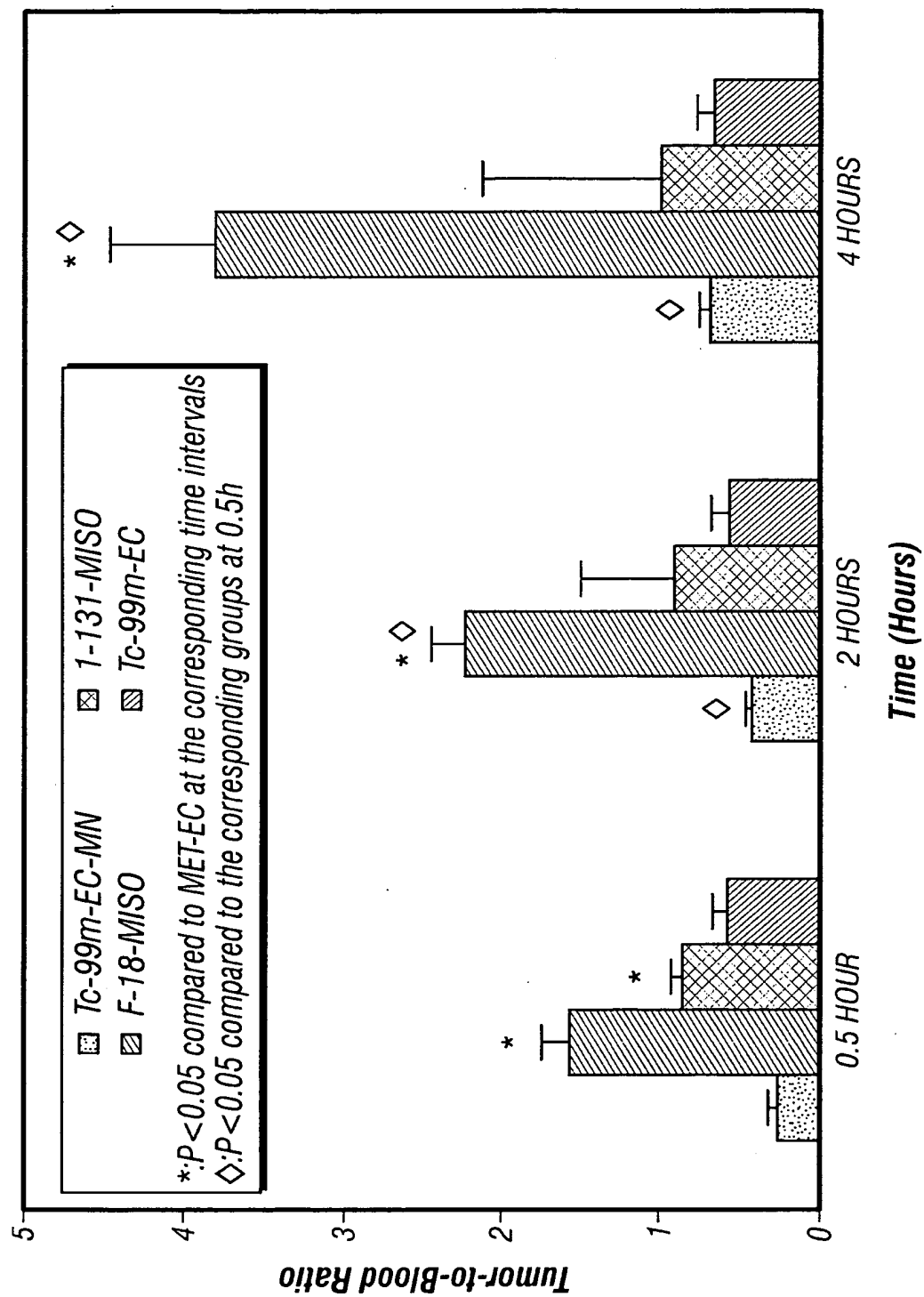


FIG. 9

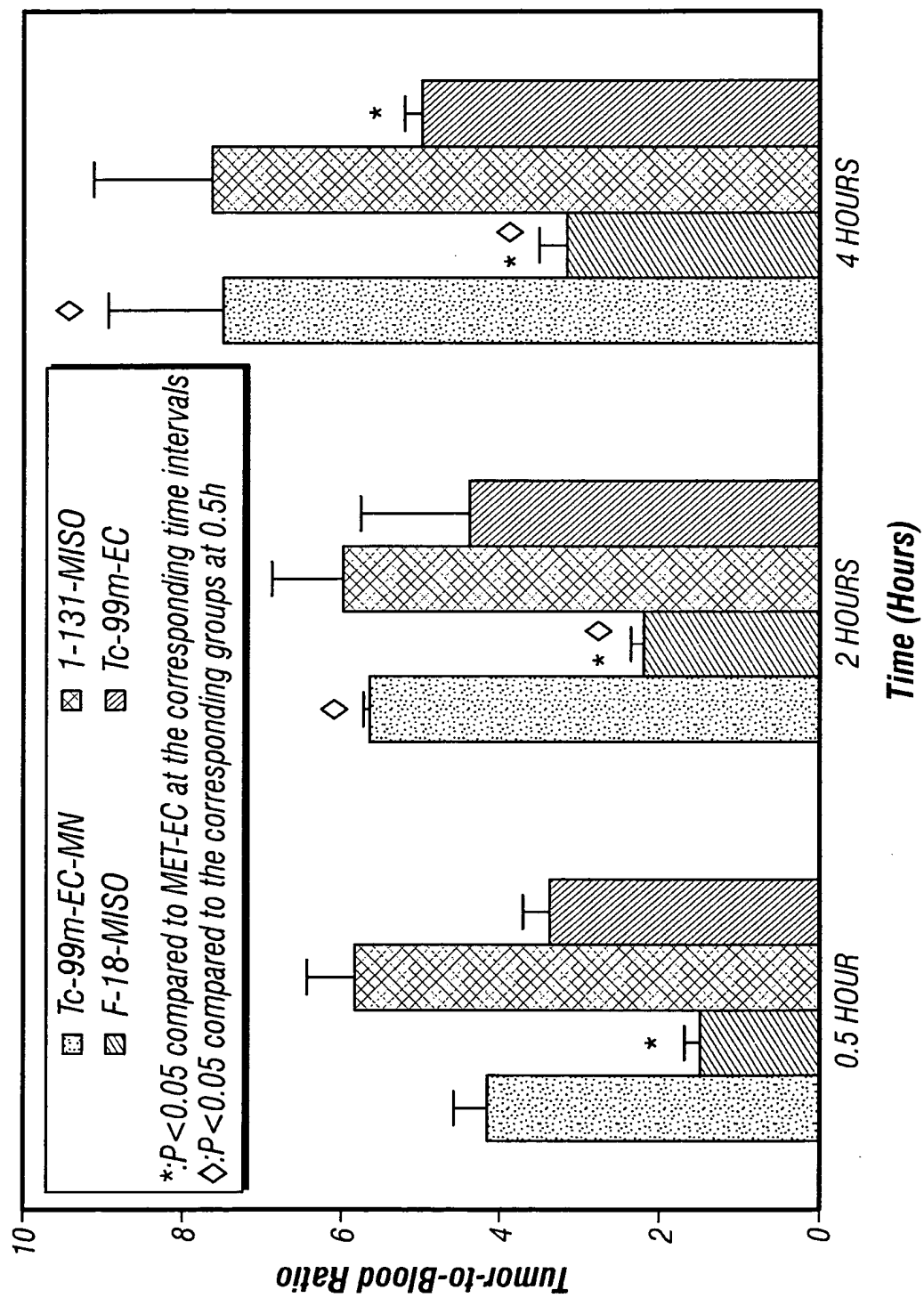


FIG. 10

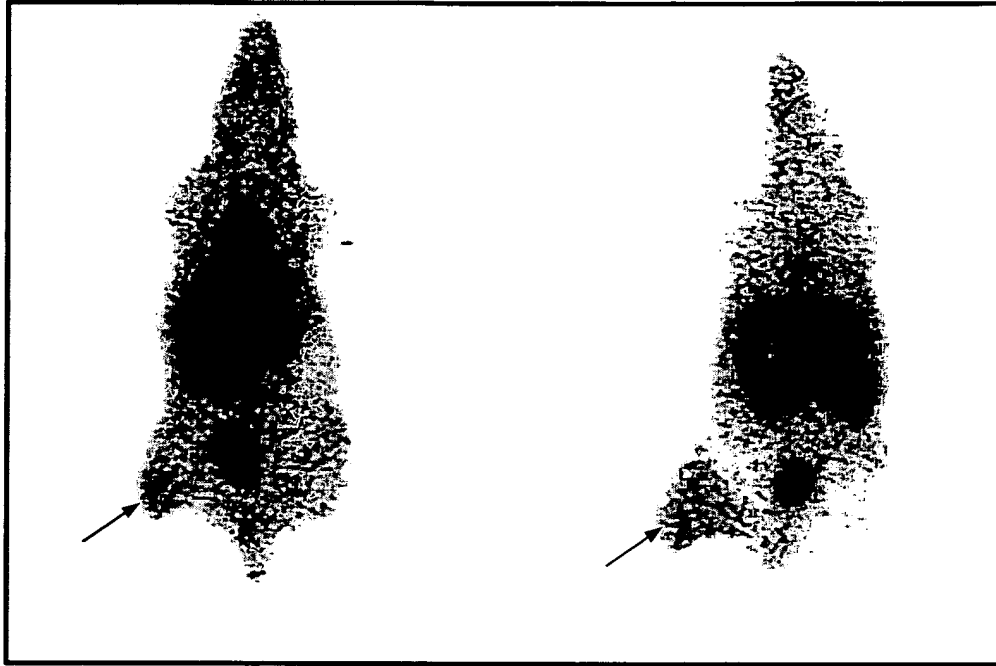


FIG. 11A

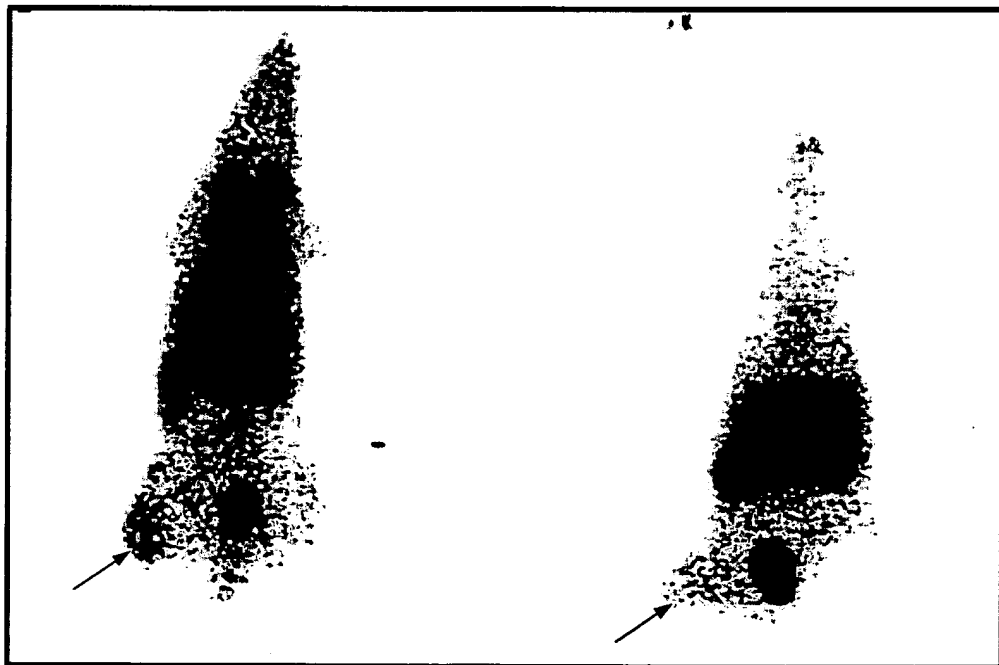


FIG. 11B

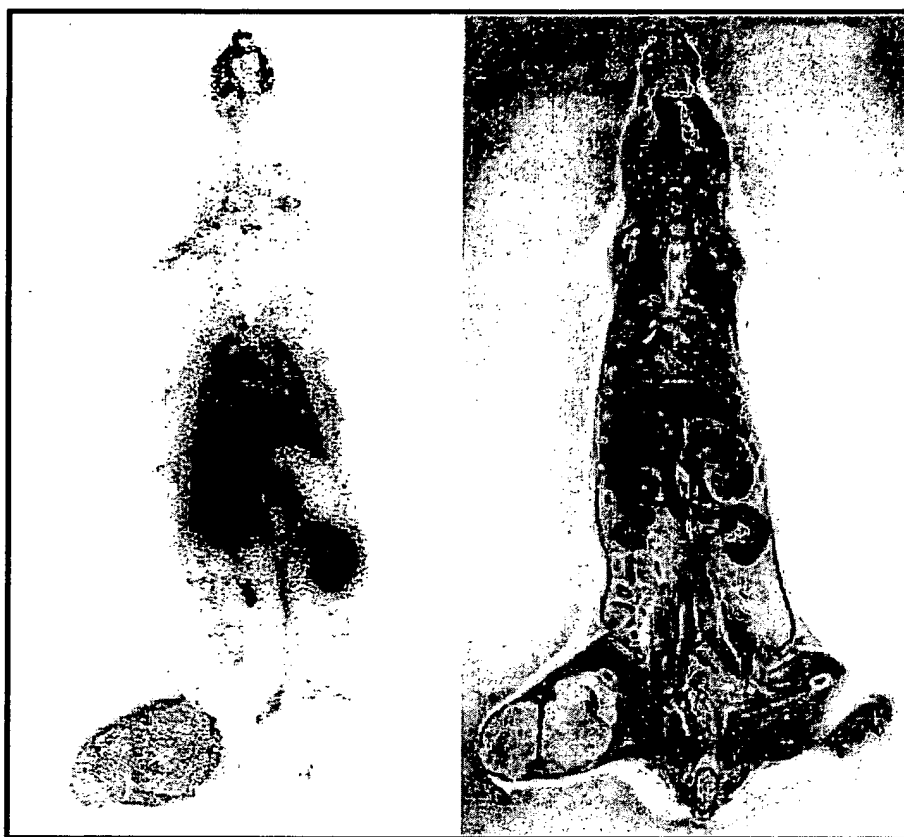


FIG. 12

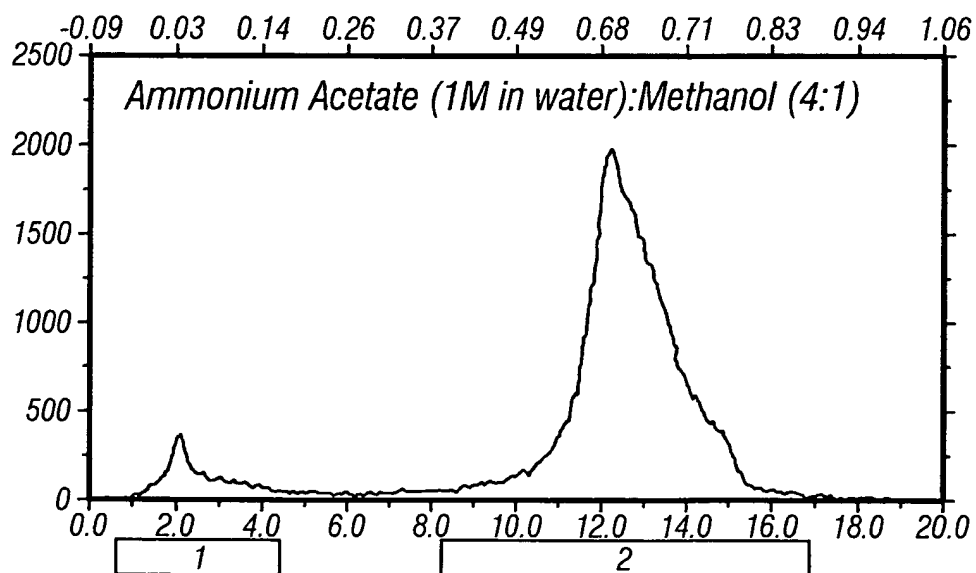


FIG. 13

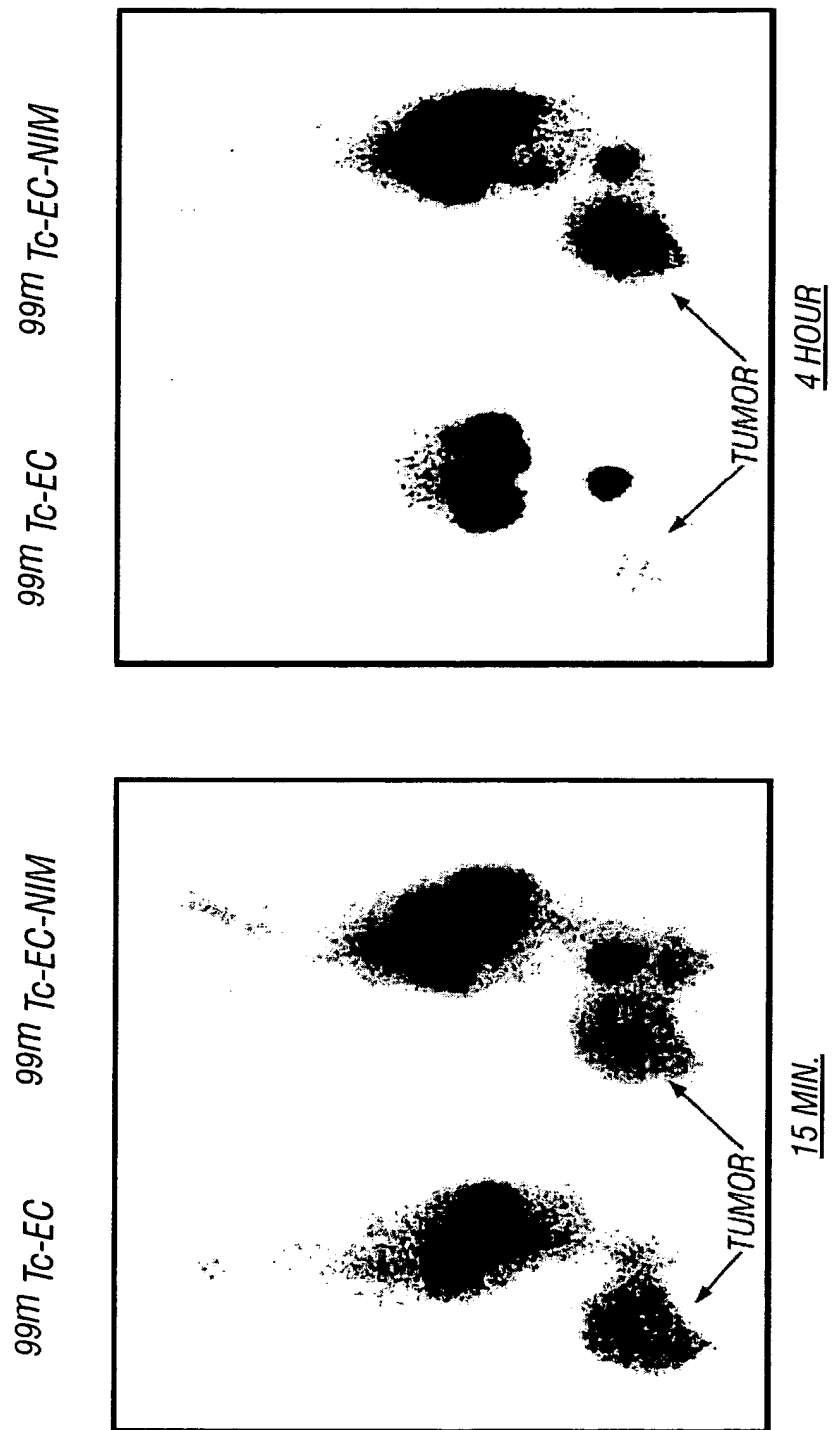


FIG. 14A

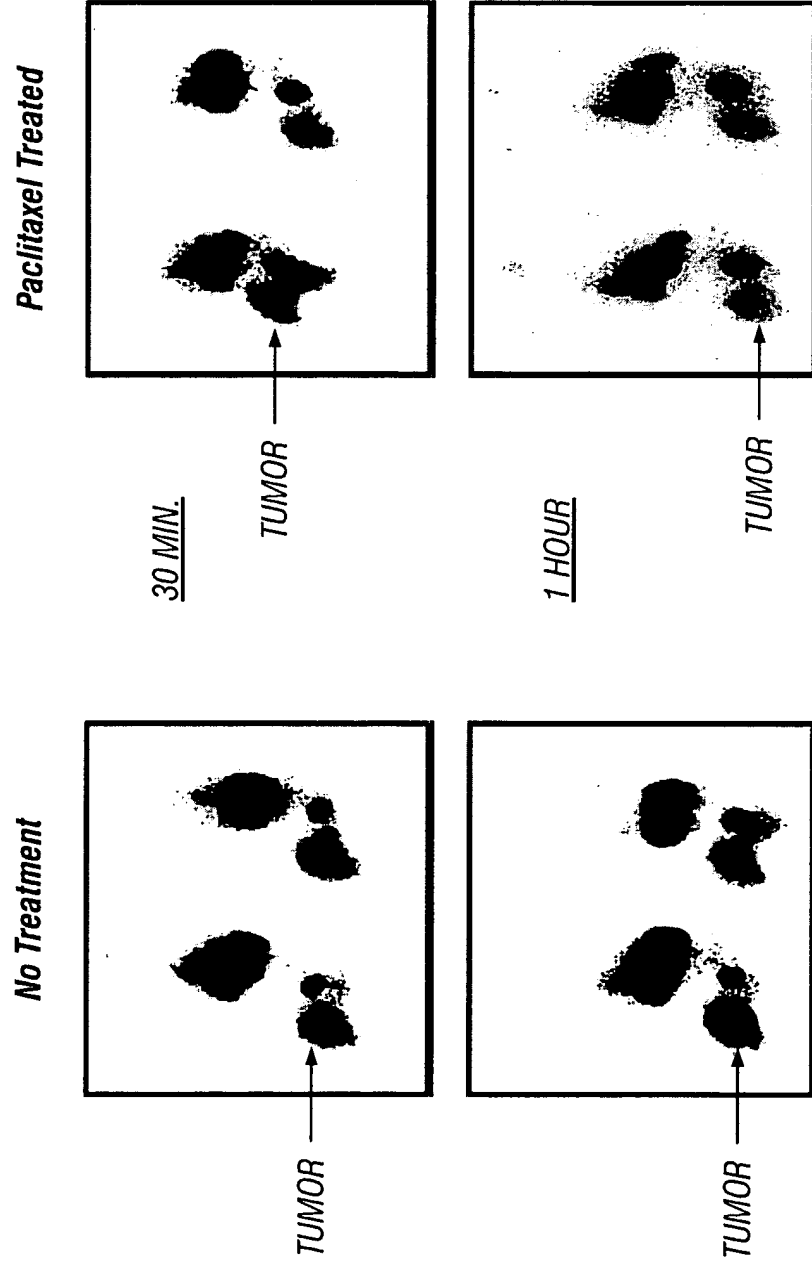


FIG. 14B

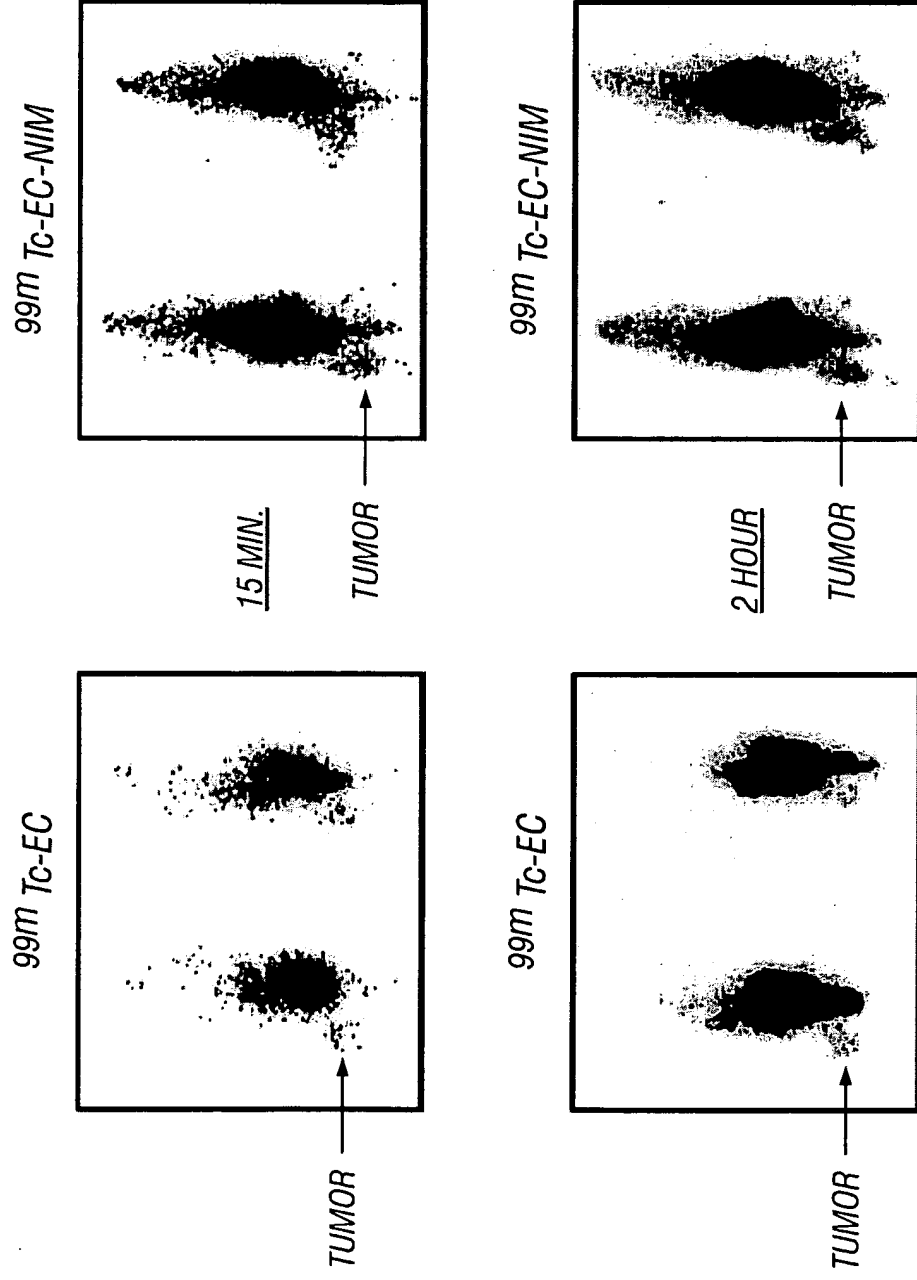


FIG. 15A

***^{99m}Tc -EC-Nitroimidazole (NIM)
(100 μCi /mouse, iv.)***

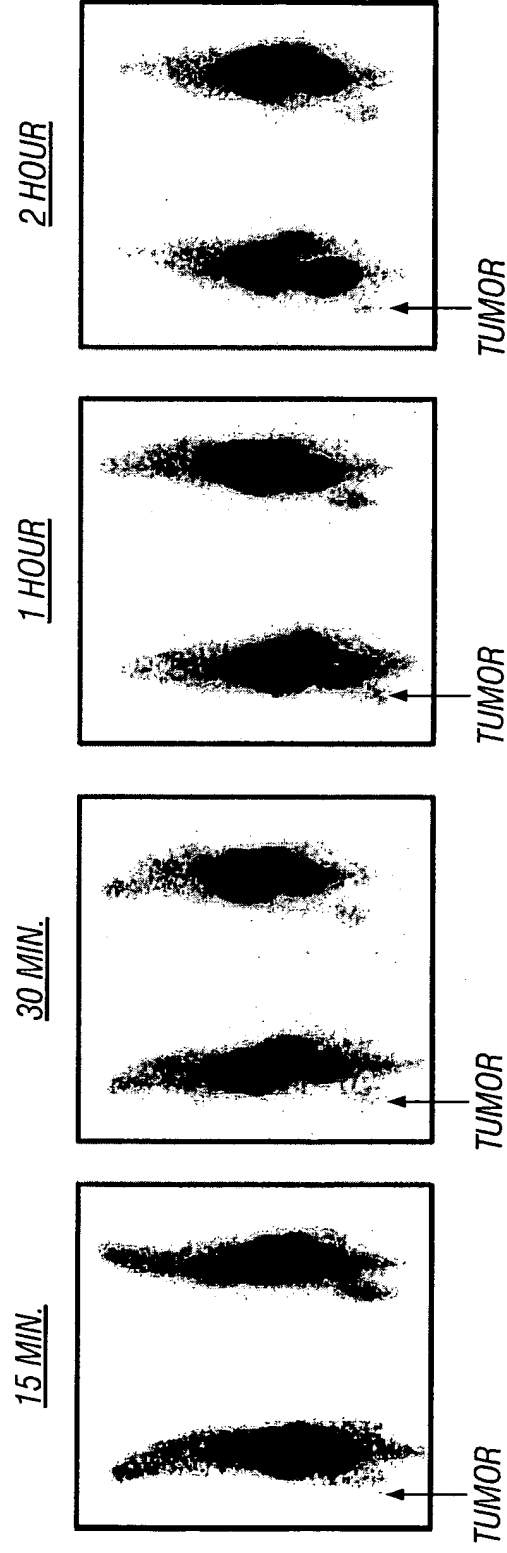
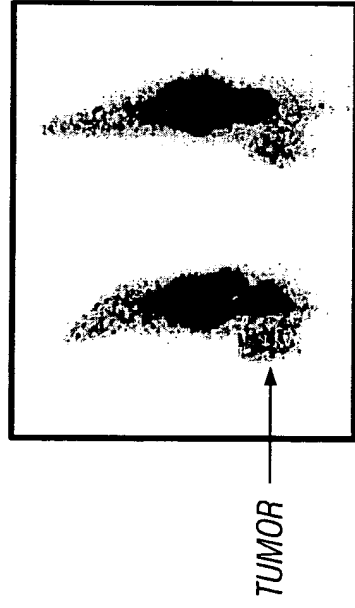


FIG. 15B

^{99m}Tc-EC-Nitroimidazole (NIM)



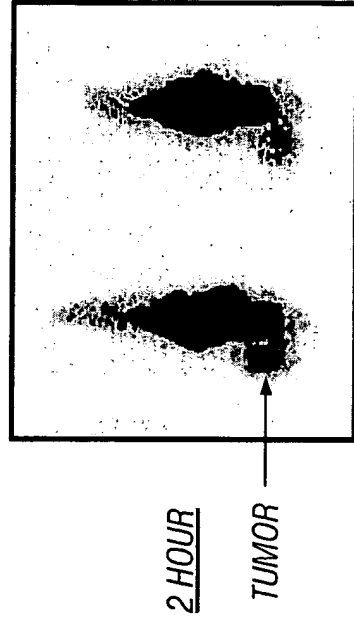
15 MIN.



30 MIN.



1 HOUR



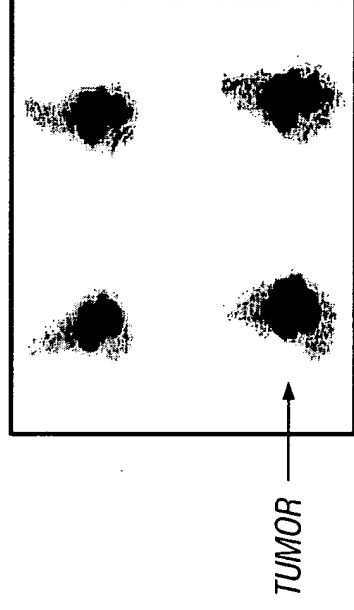
2 HOUR

FIG. 15C

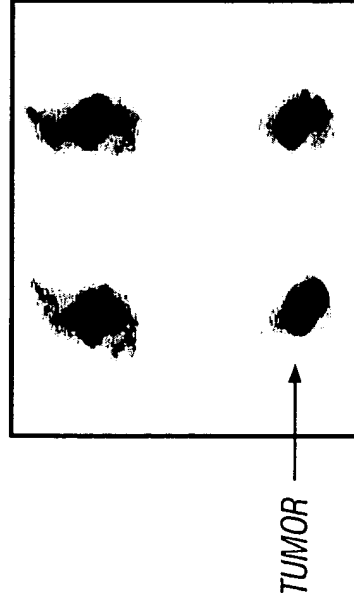
***^{99m}Tc -EC-Nitroimidazole (NIM)
(100 μCi /mouse, iv.)***



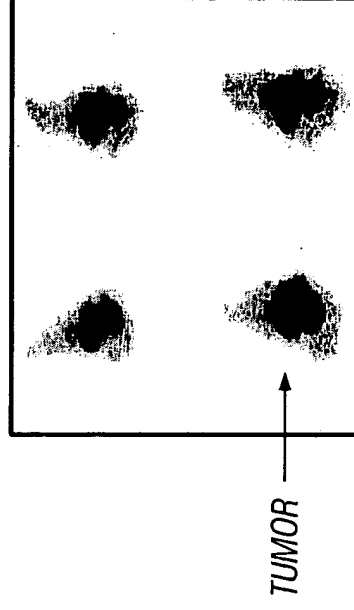
15 MIN.



30 MIN.

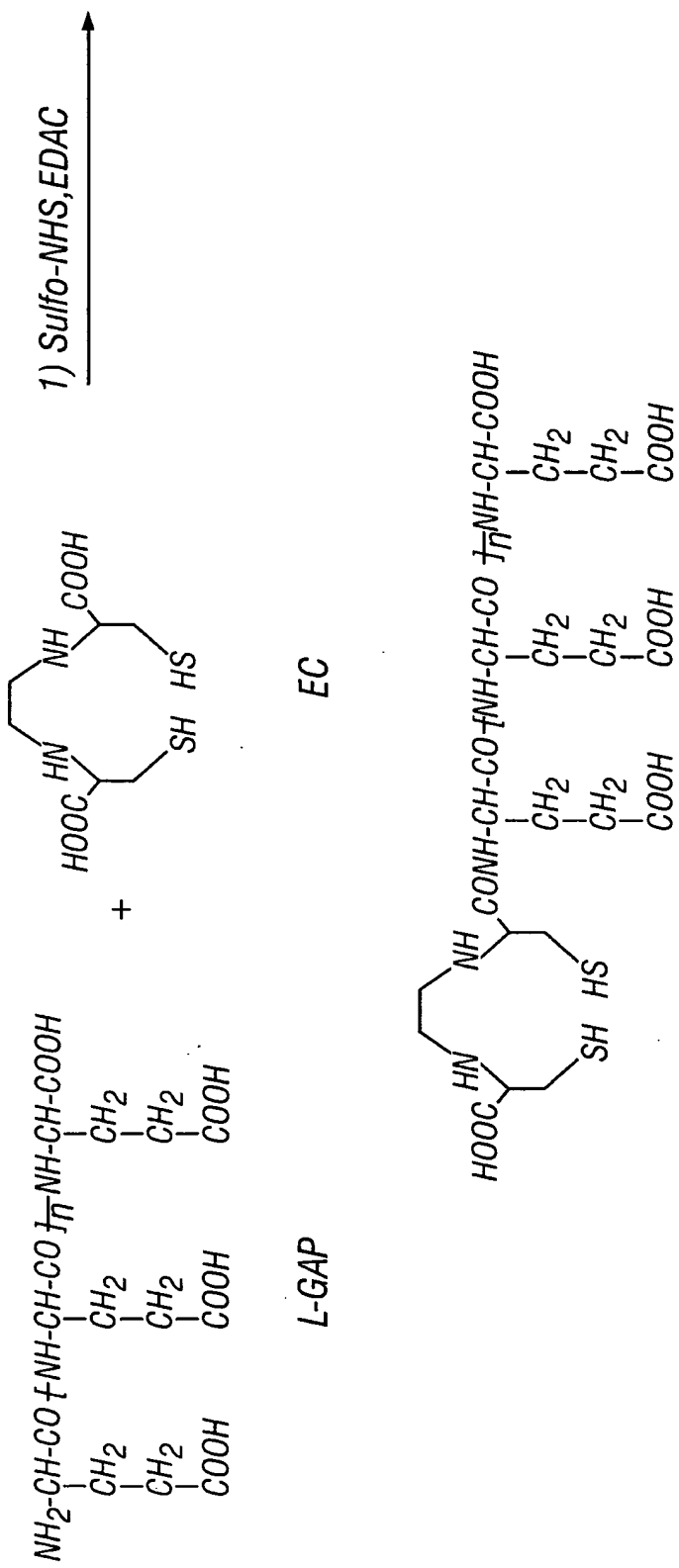


1 HOUR



2 HOUR

FIG. 15D



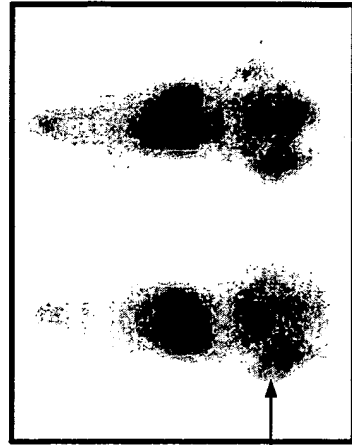
Synthesis of EC-GAP

FIG. 16



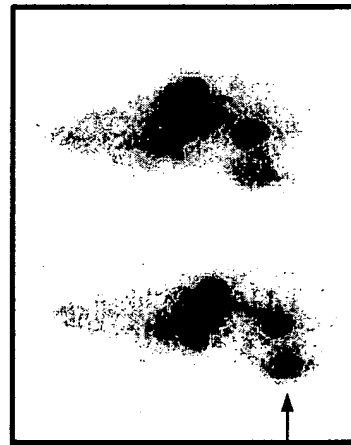
TUMOR

15 MIN.



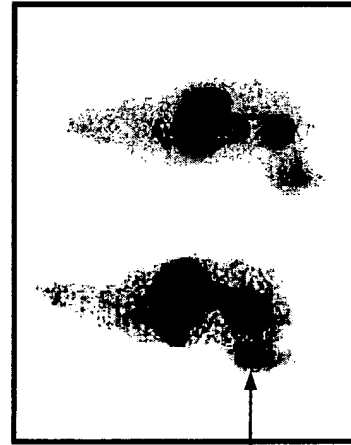
TUMOR

30 MIN.



TUMOR

1 HOUR



TUMOR

2 HOUR

FIG. 17

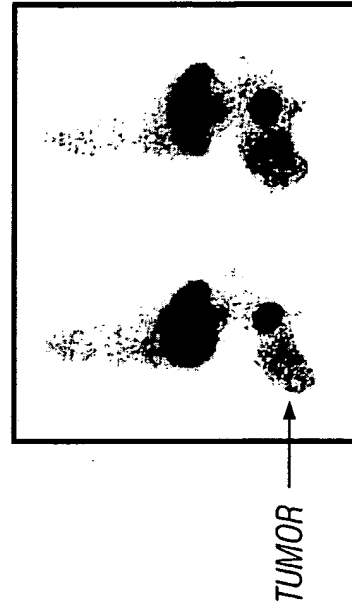
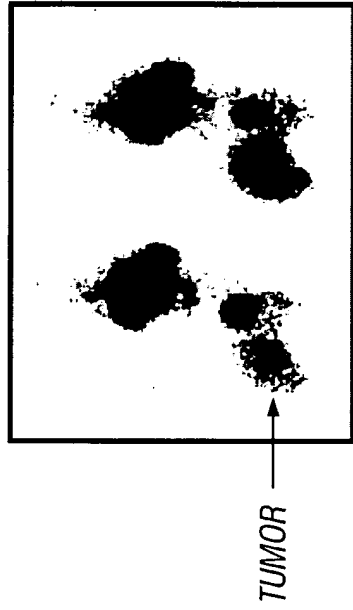
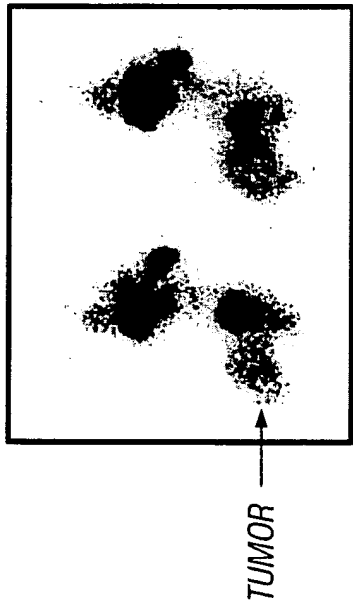


FIG. 18

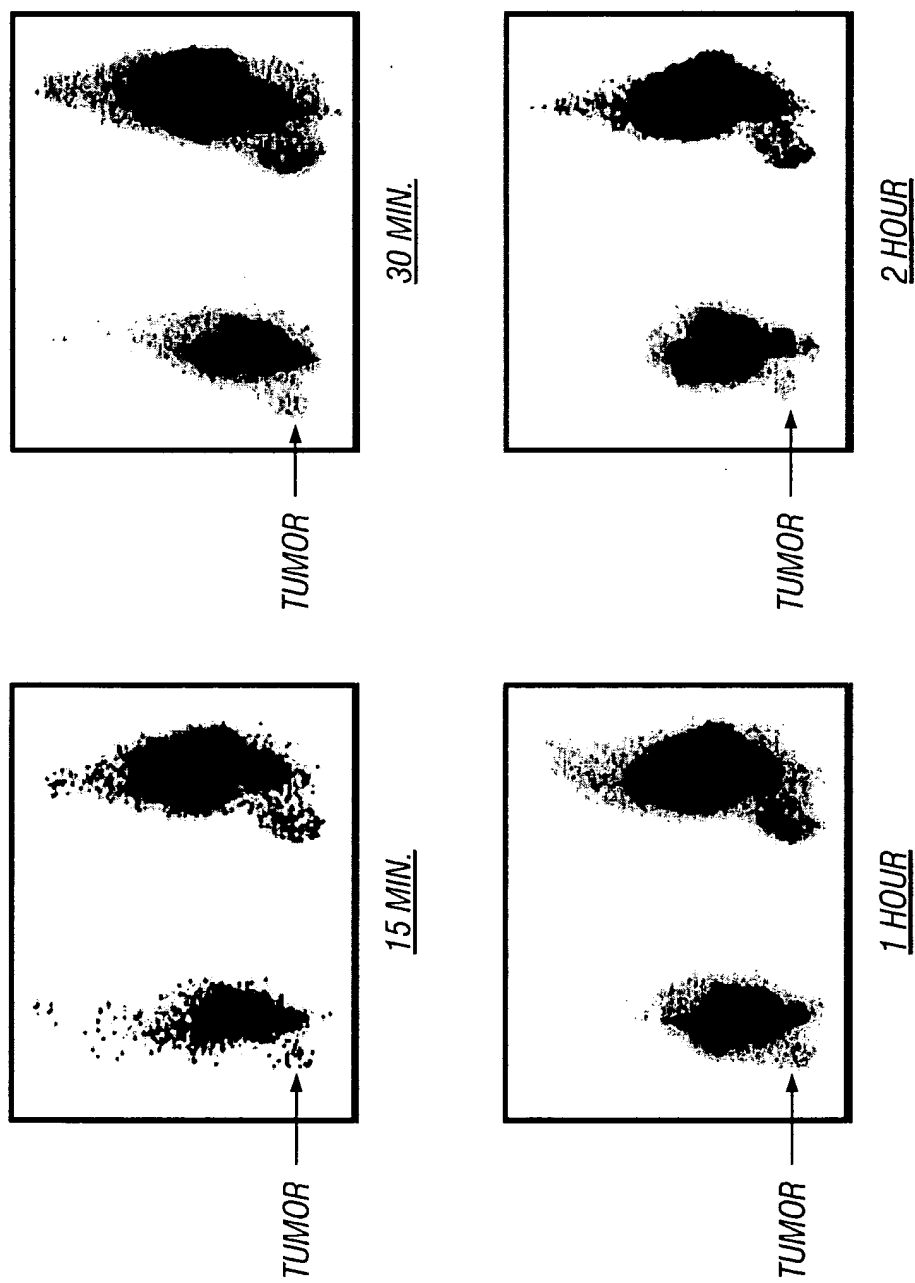


FIG. 19A

^{99m}Tc -EC-Annexin V
(100 μCi /mouse, iv.)

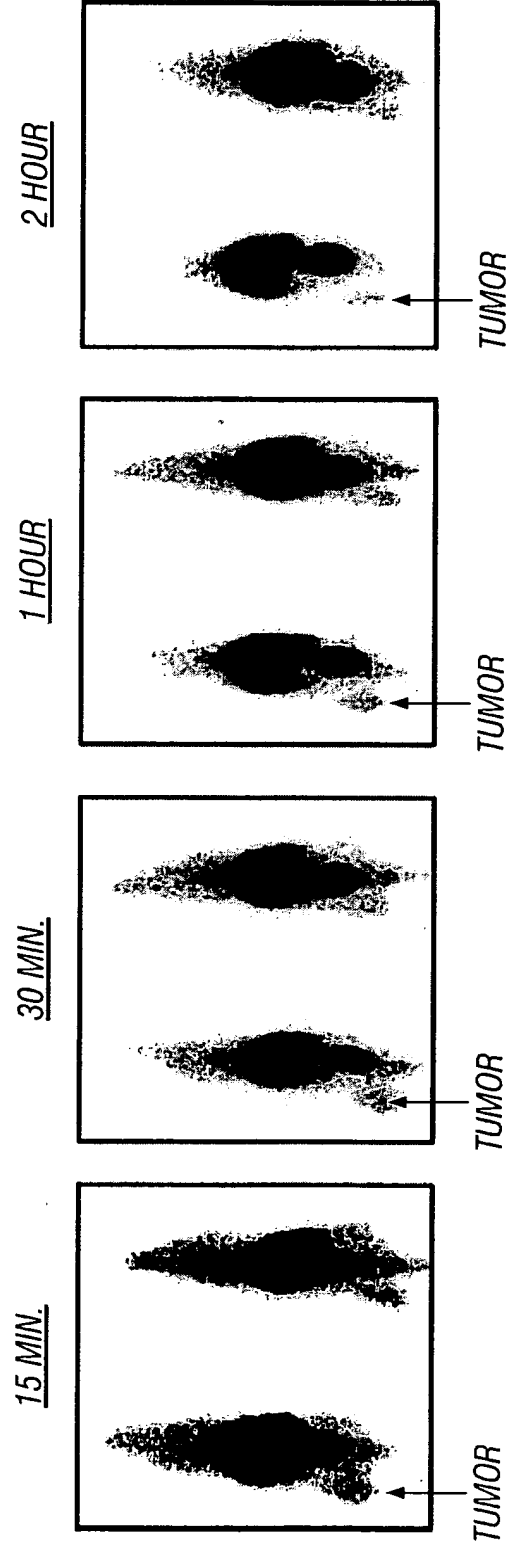


FIG. 19B

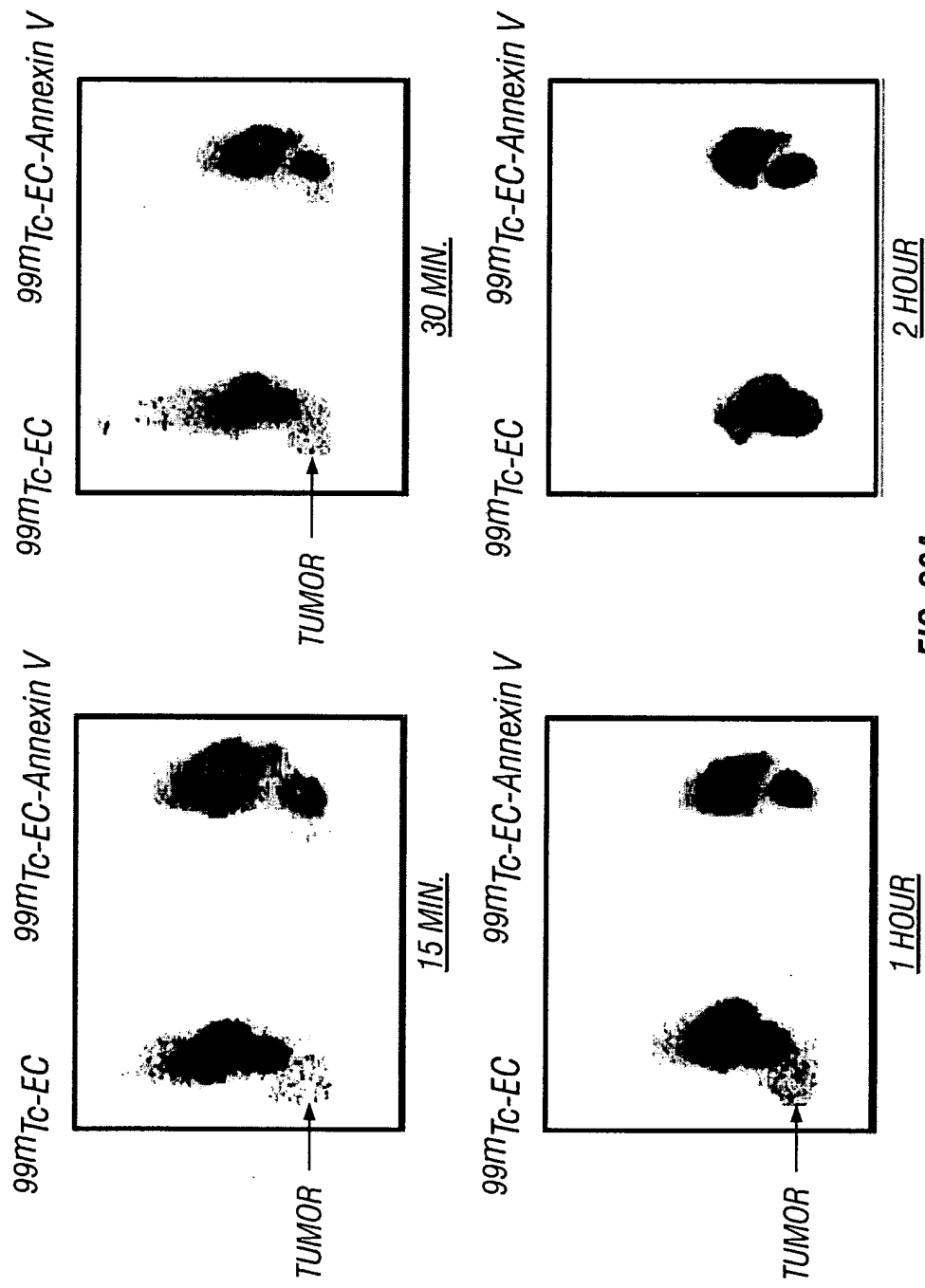


FIG. 20A

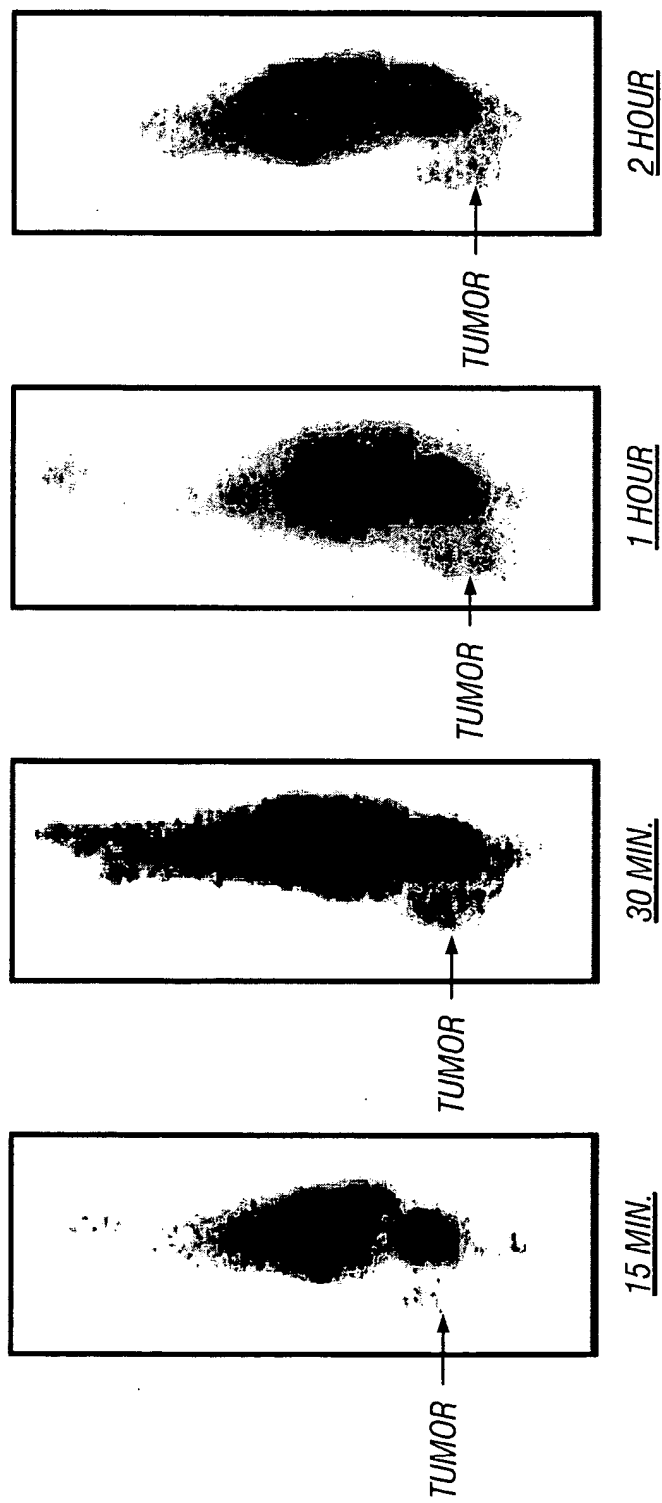


FIG. 20B

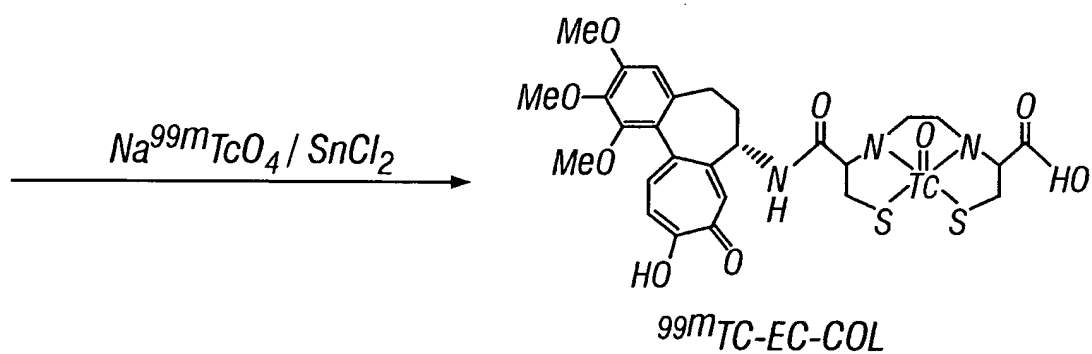
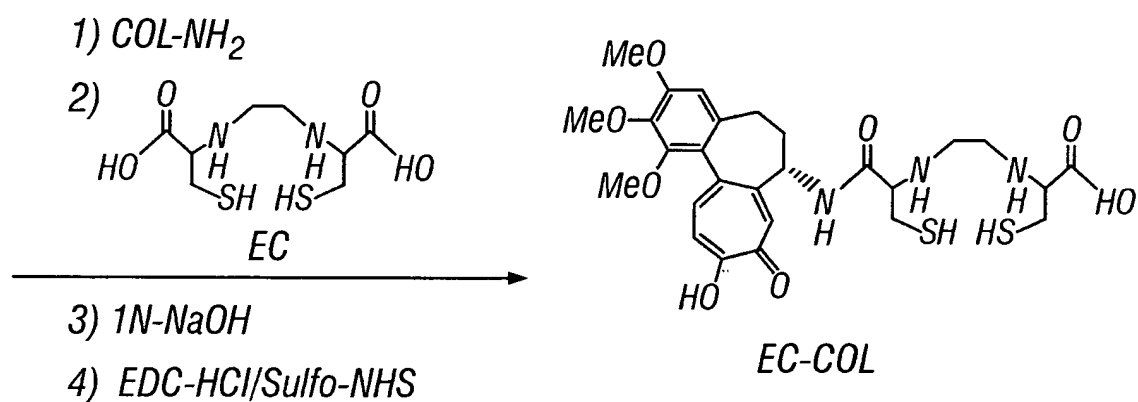
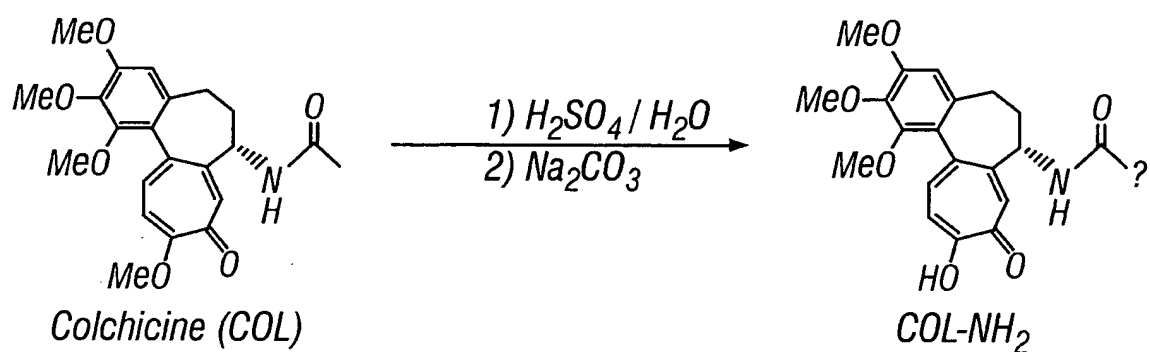


FIG. 21

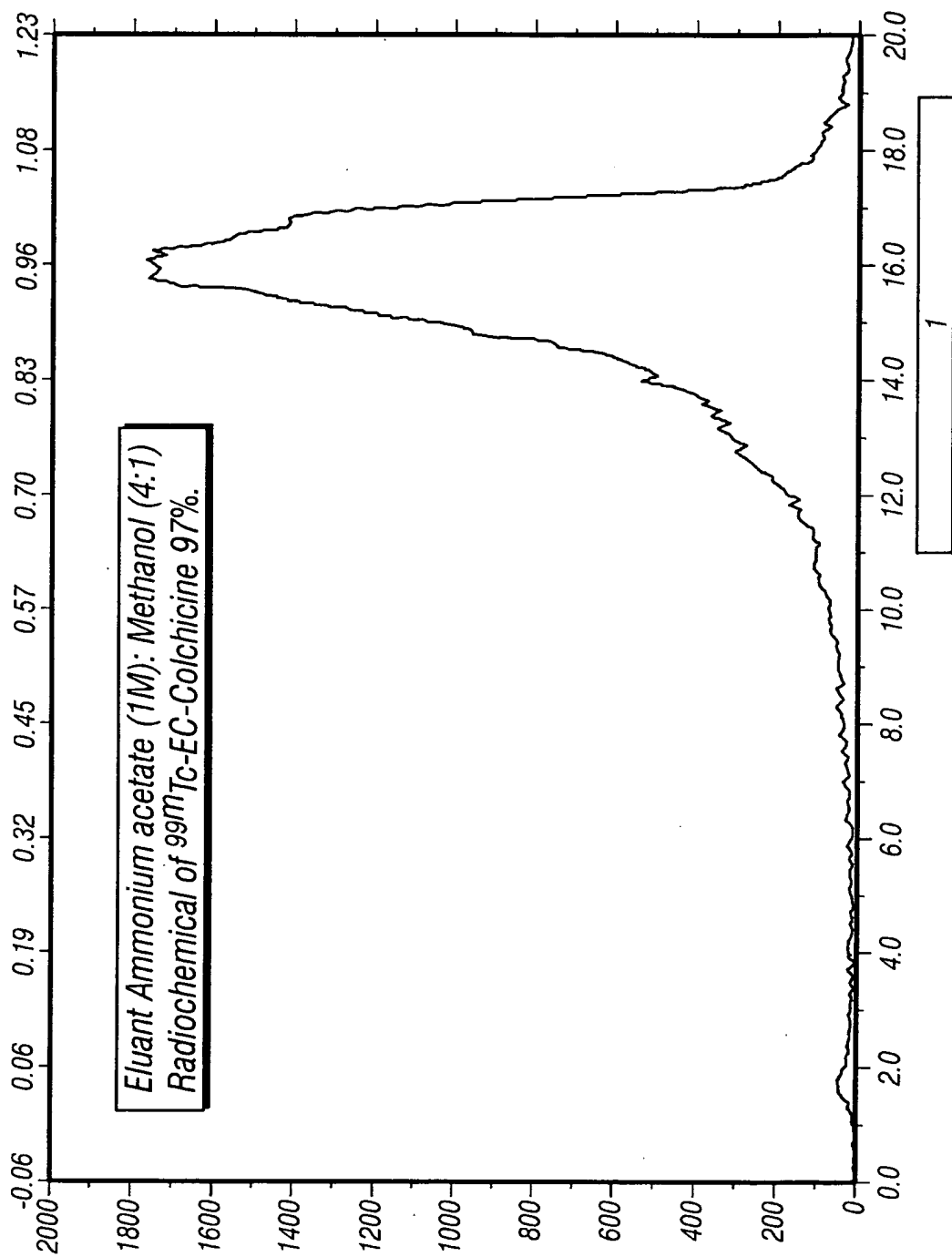


FIG. 22

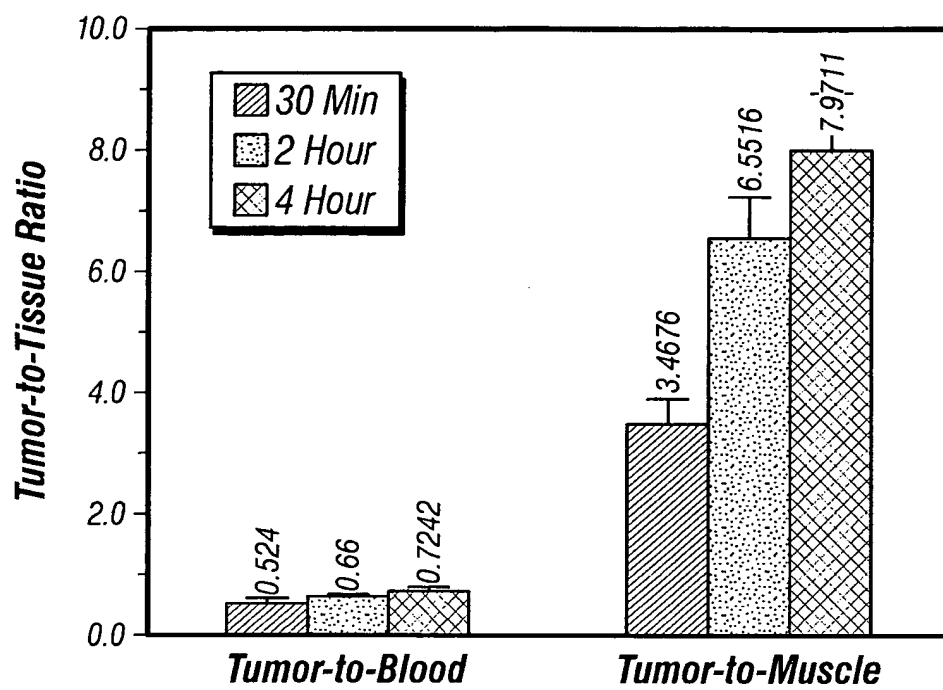


FIG. 23

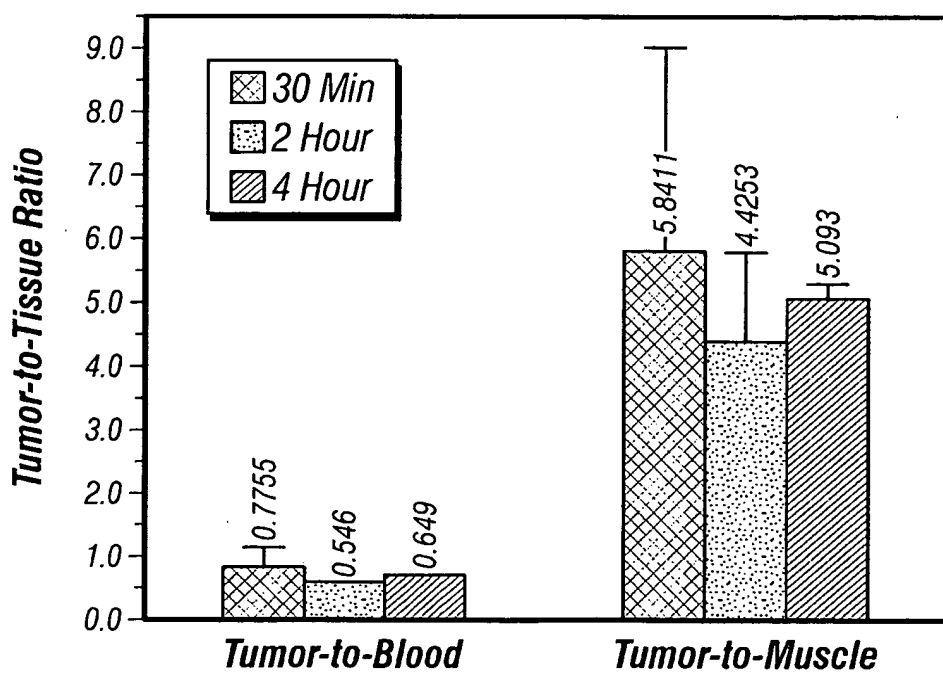


FIG. 24

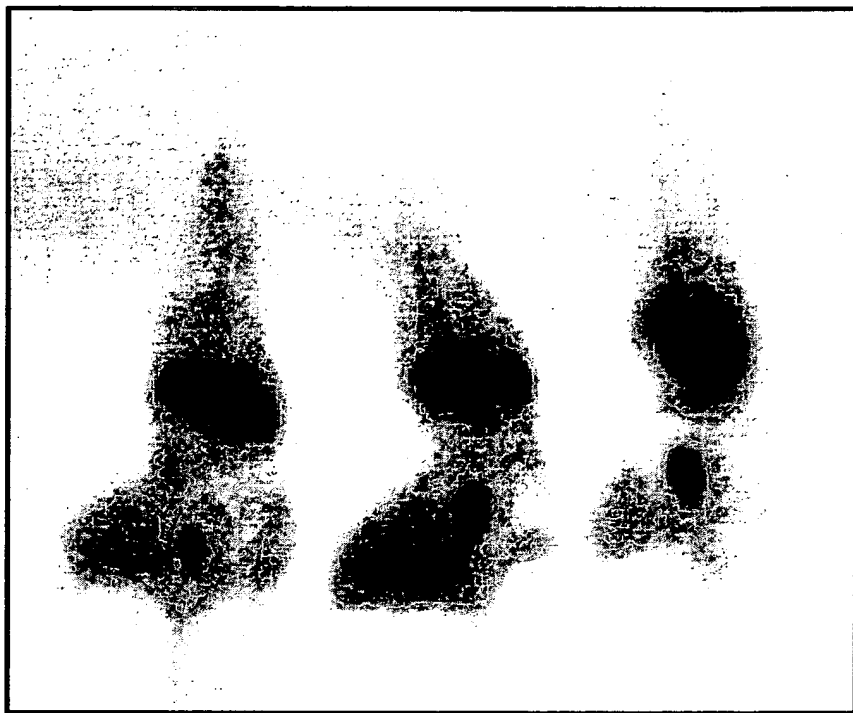


FIG. 25

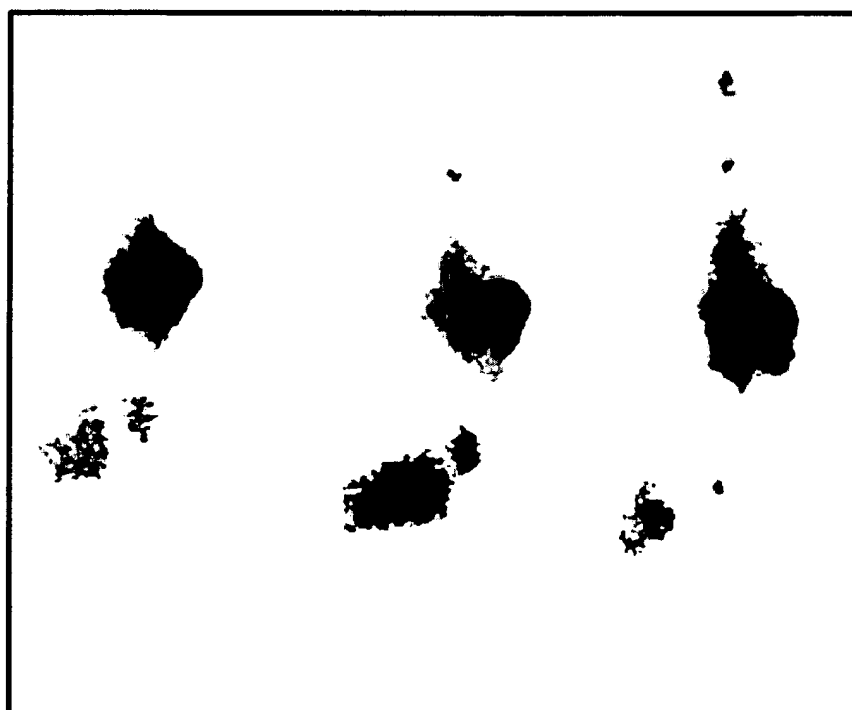


FIG. 26

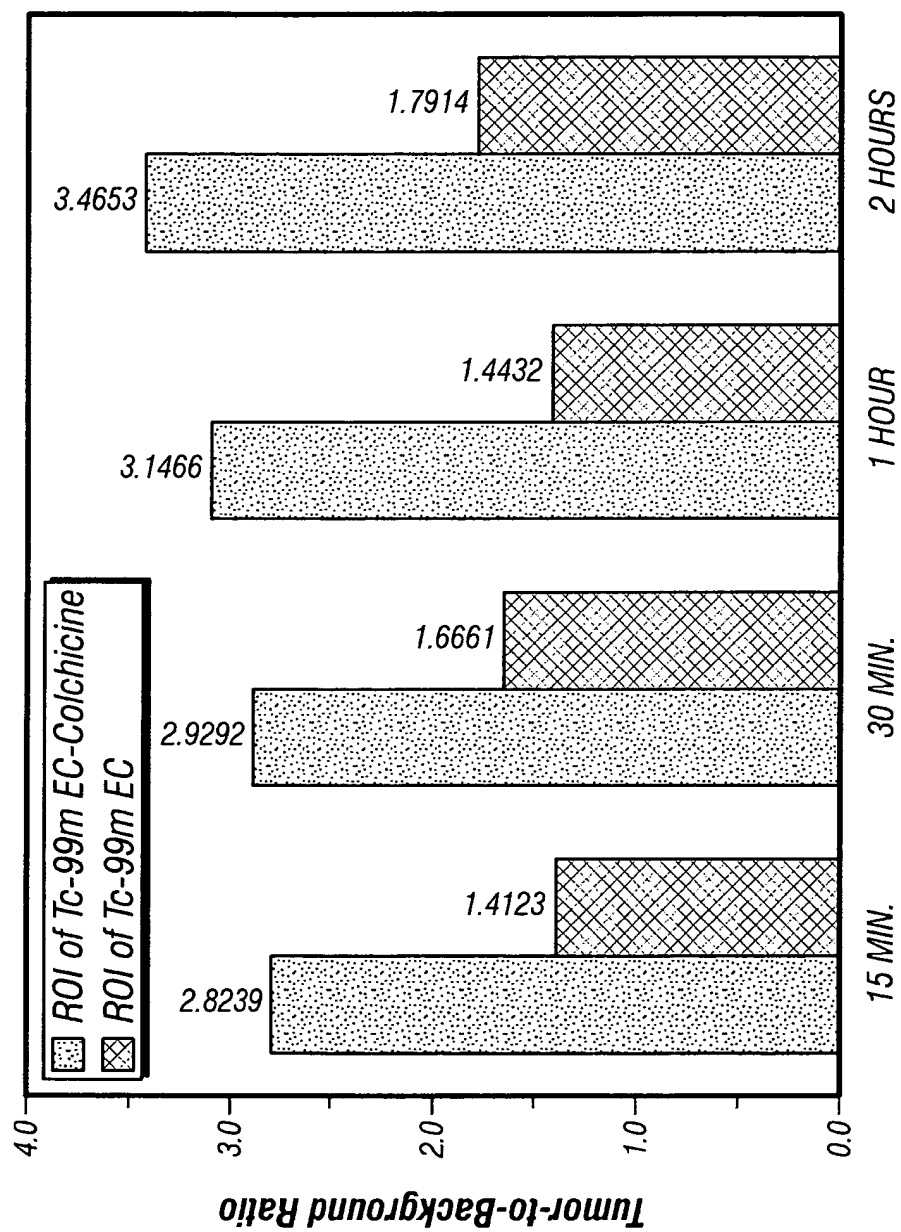


FIG. 27

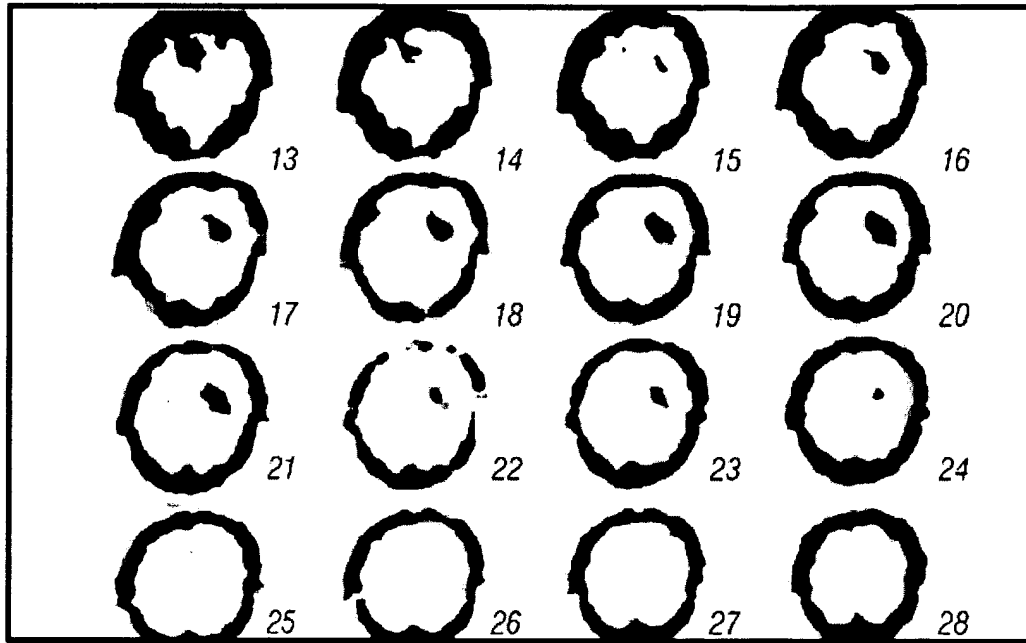


FIG. 28



FIG. 29

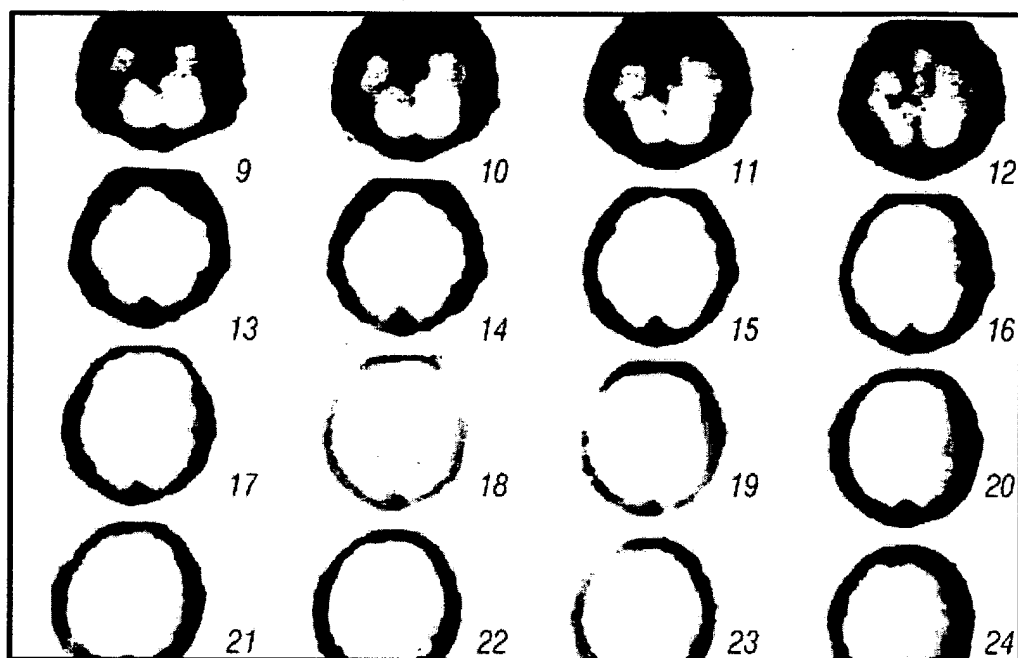


FIG. 30

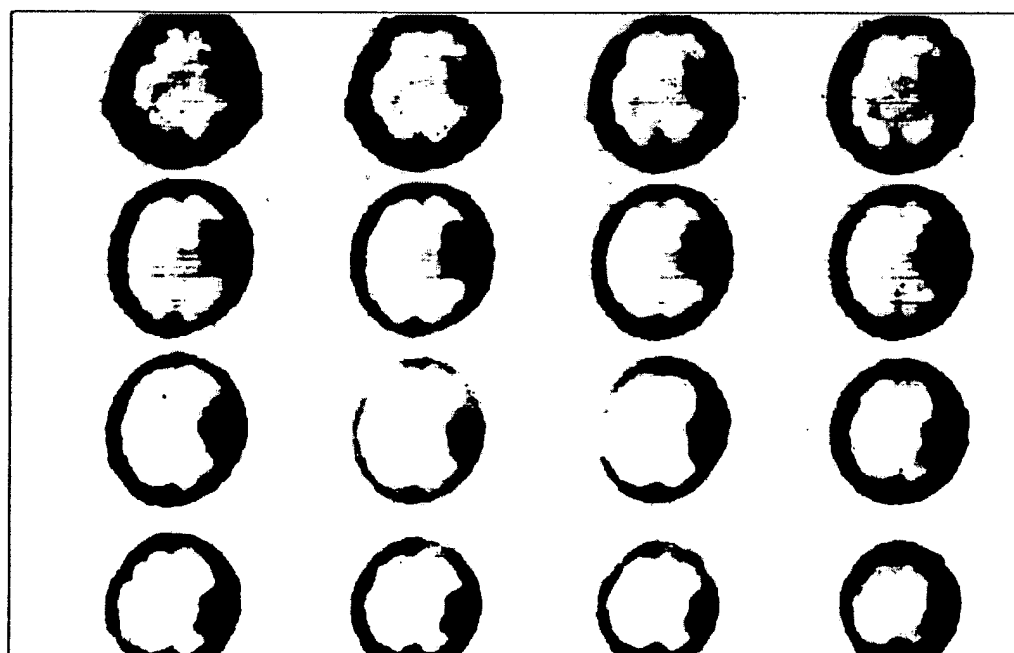


FIG. 31



FIG. 32



FIG. 33

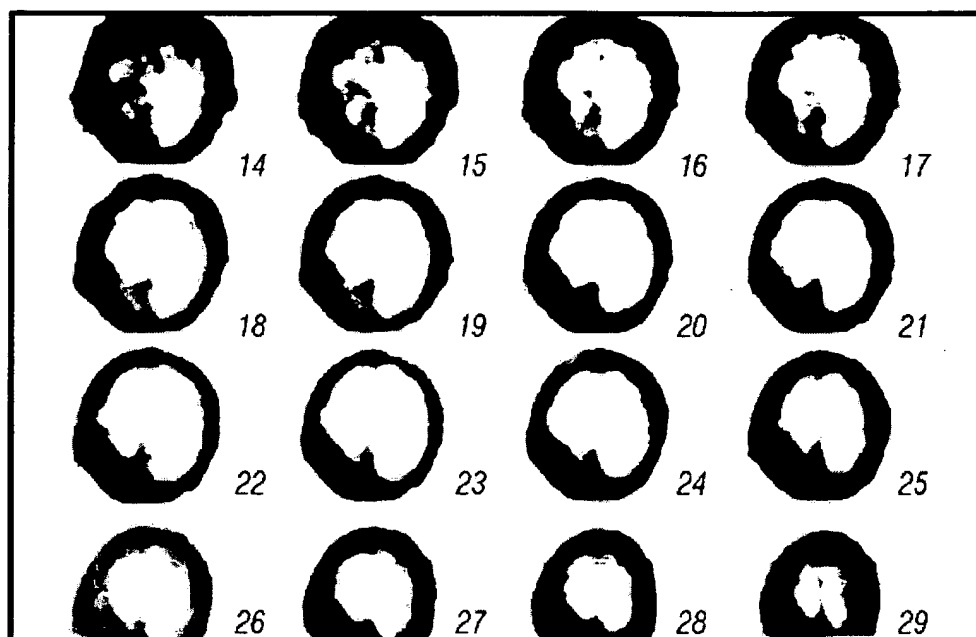
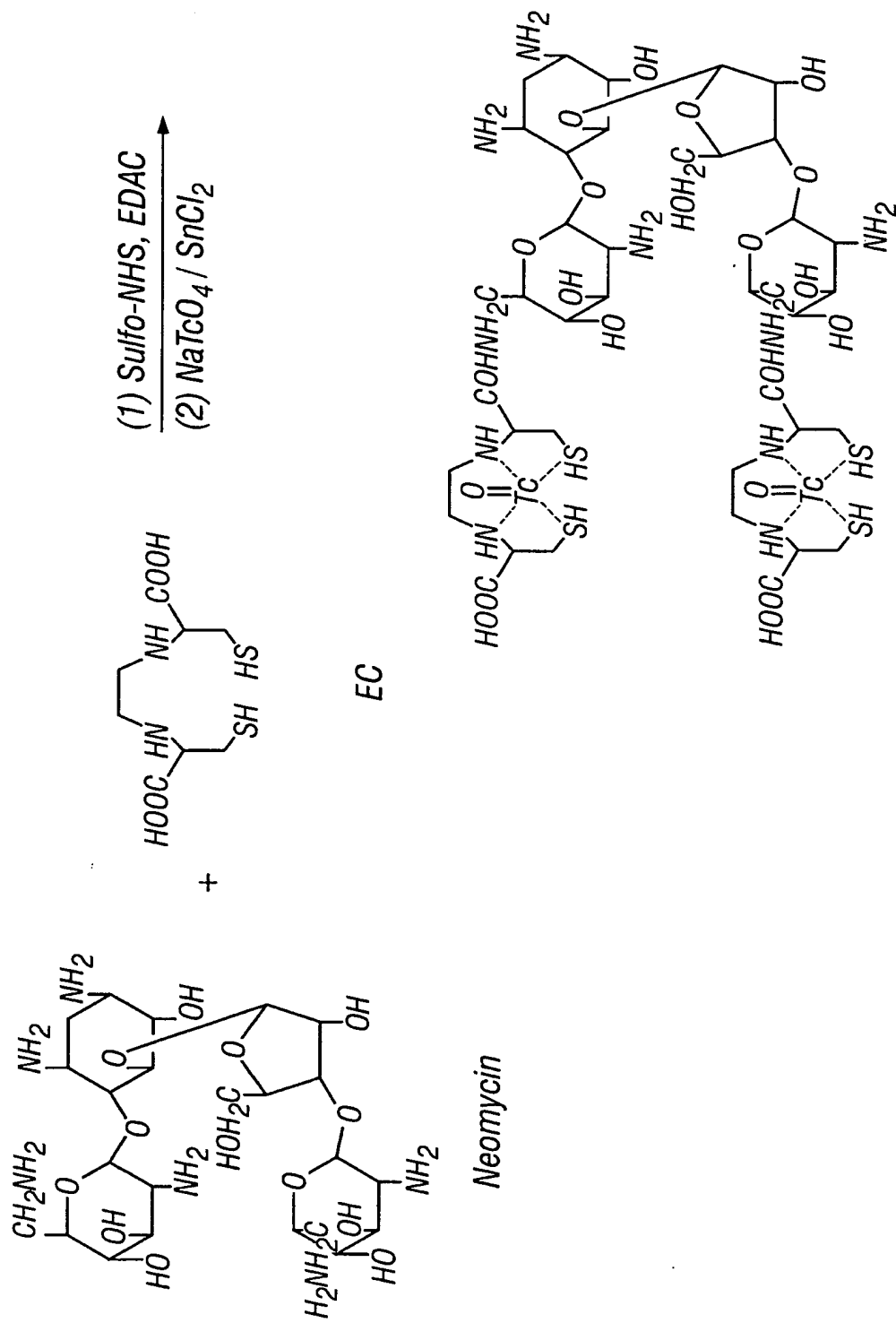


FIG. 34



FIG. 35



$^{99m}\text{Tc-EC-Neomycin}$

FIG. 36

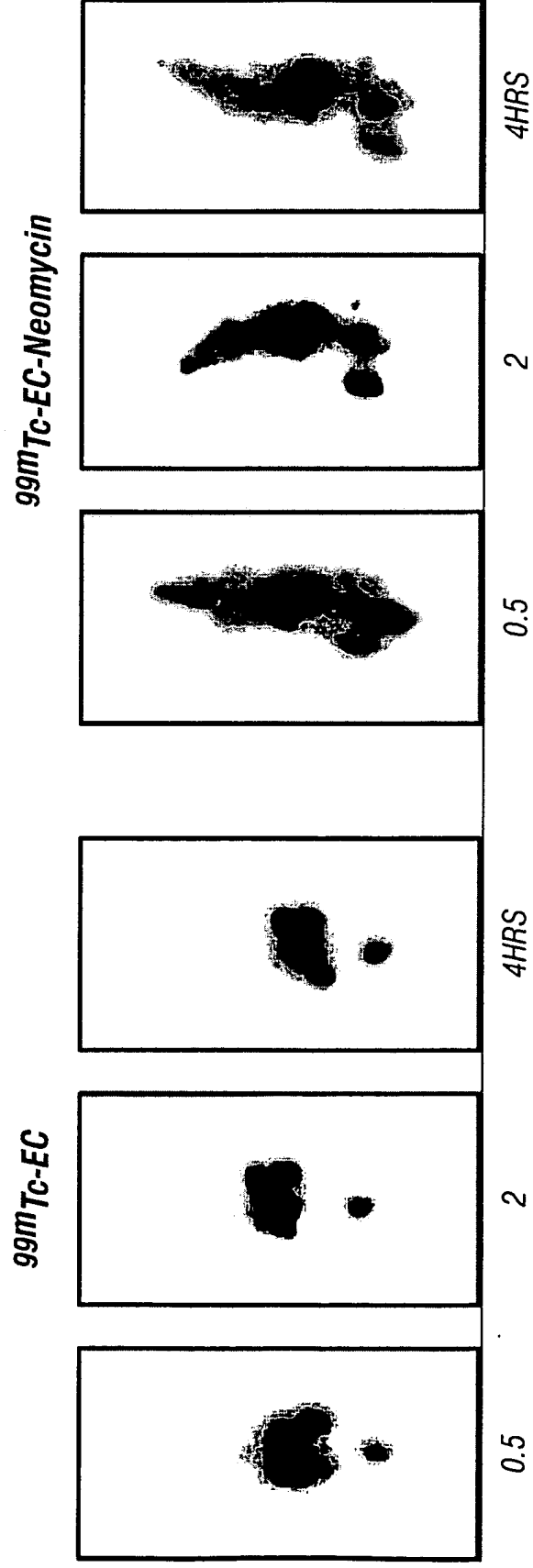


FIG. 37A

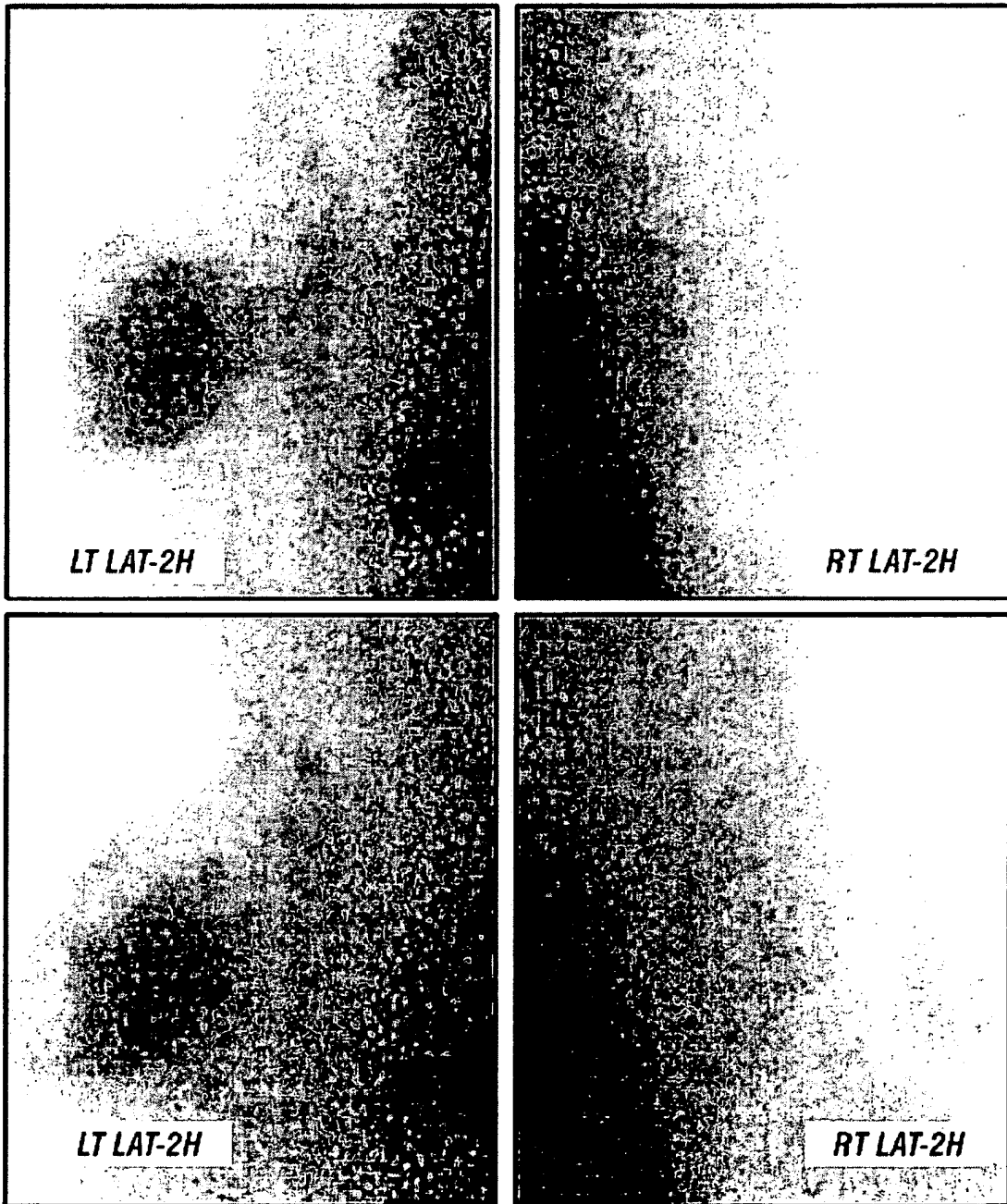
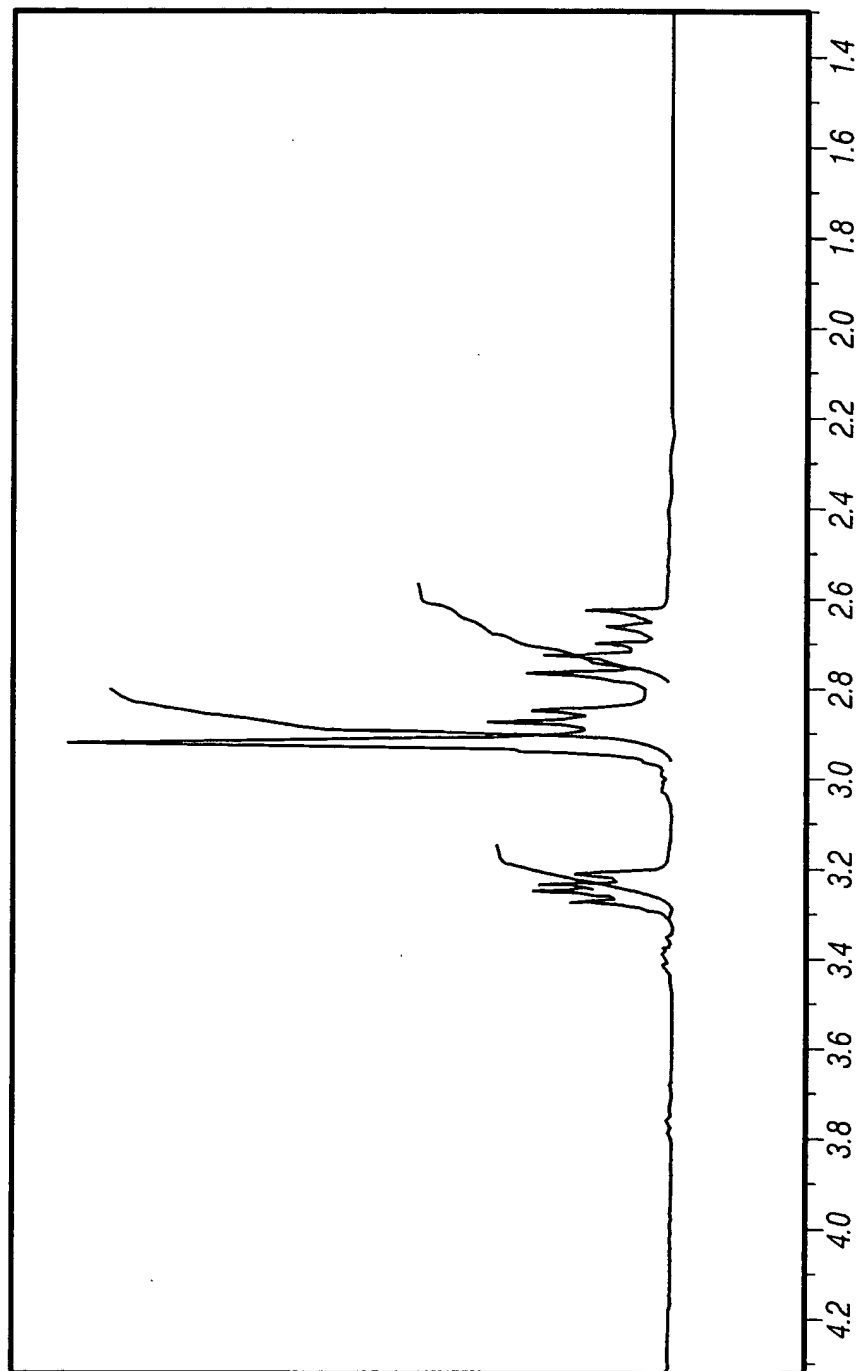
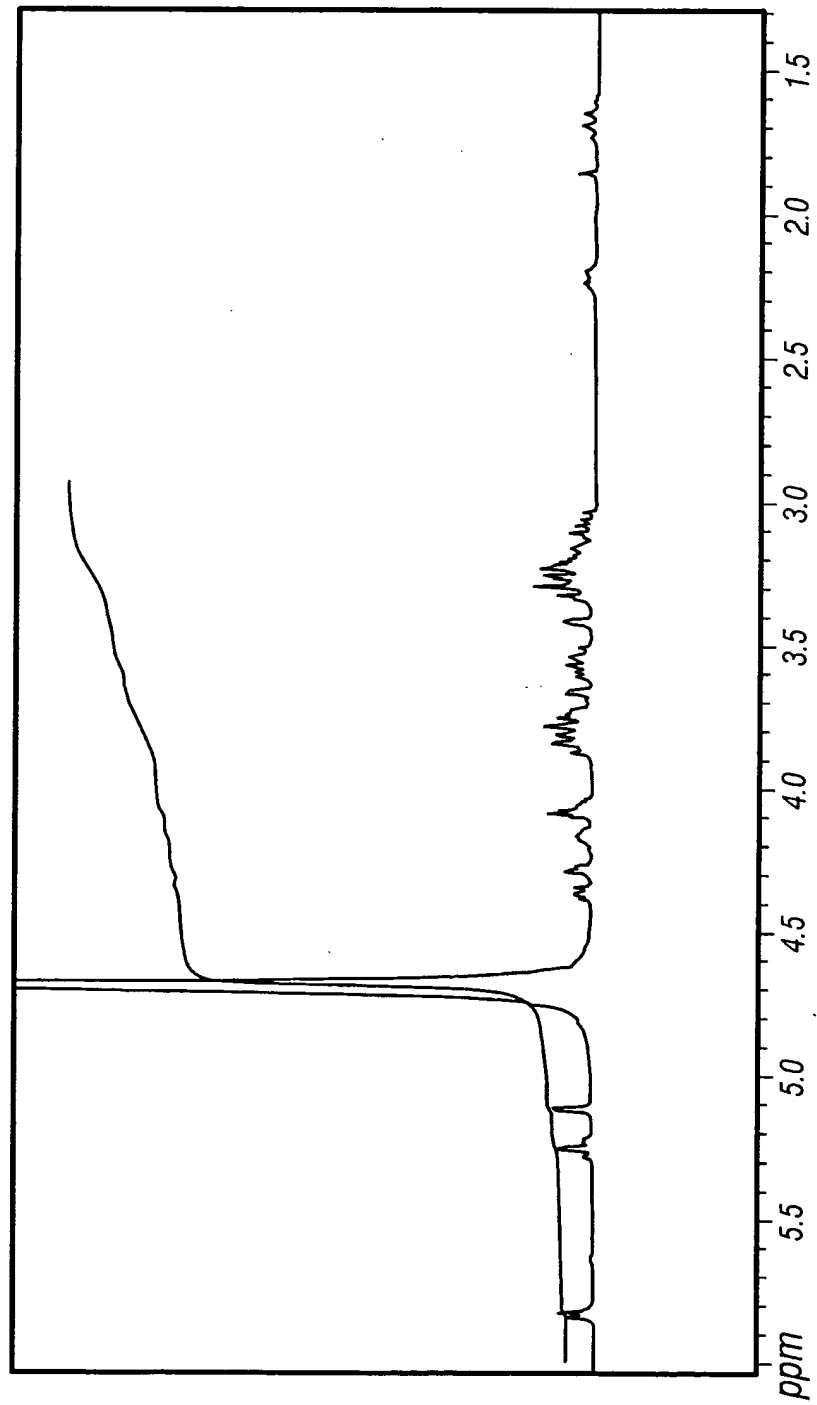


FIG. 37B



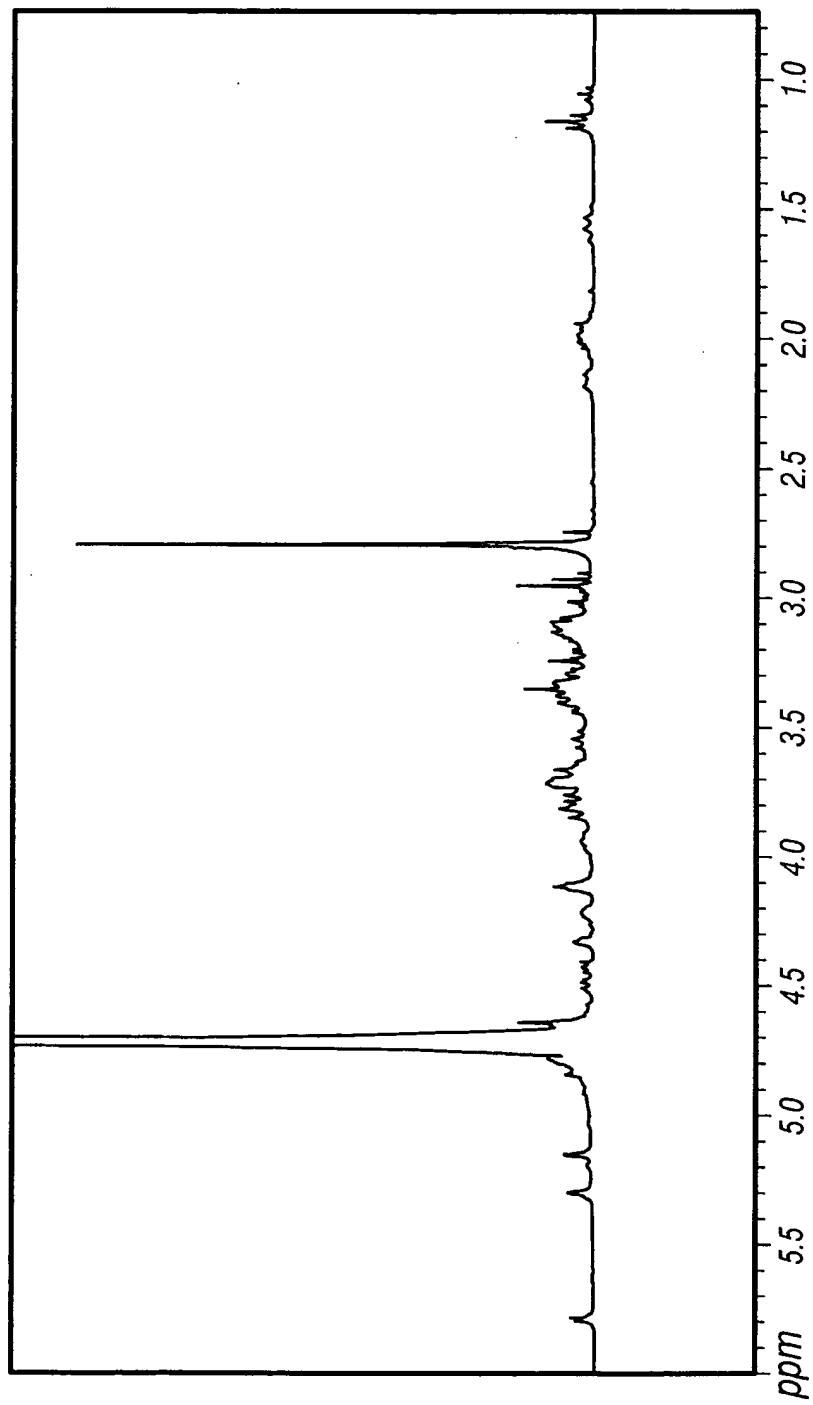
^1H -NMR of EC.

FIG. 38A



^1H -NMR of neomycin

FIG. 38B



^1H -NMR of EC-neomycin

FIG. 38C

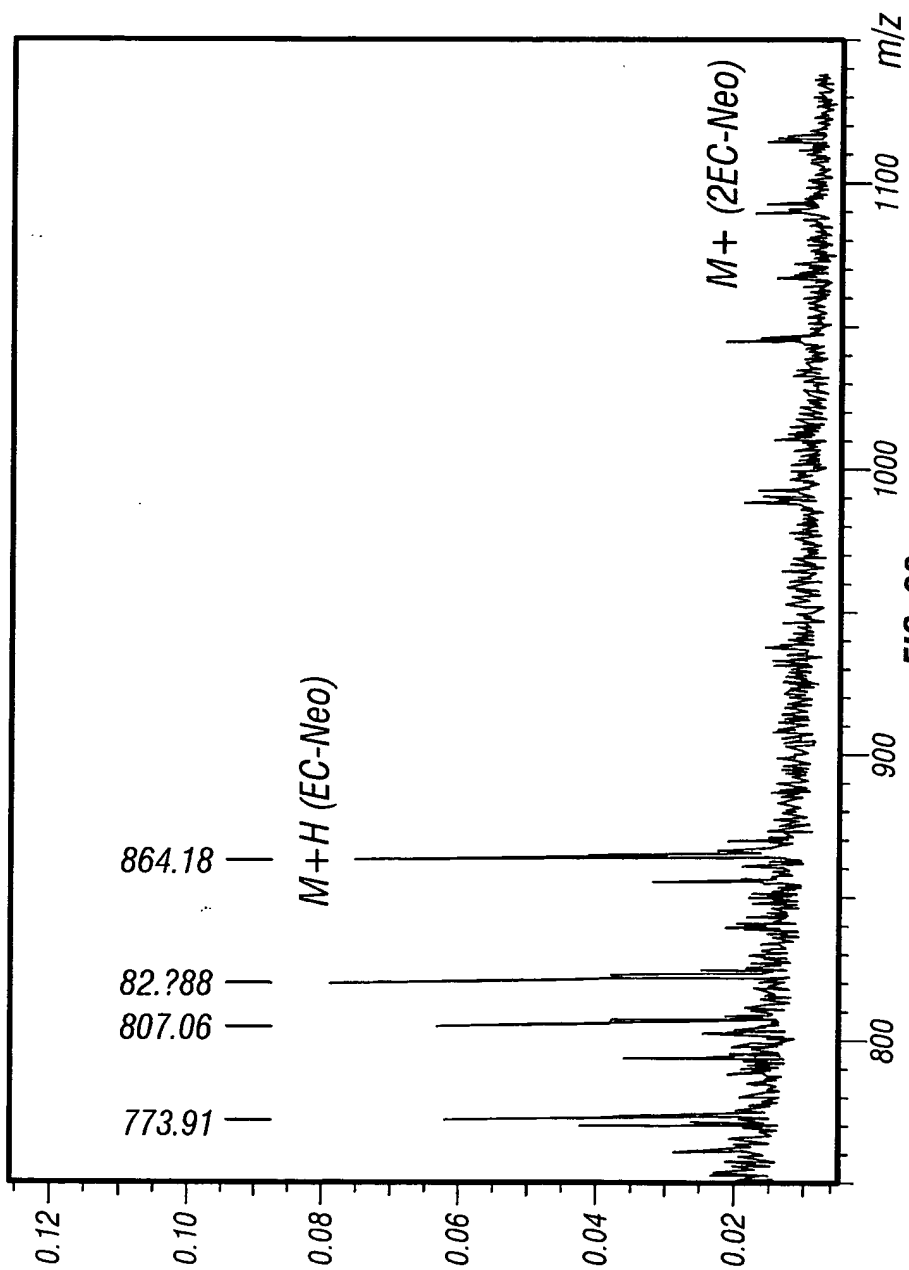


FIG. 39

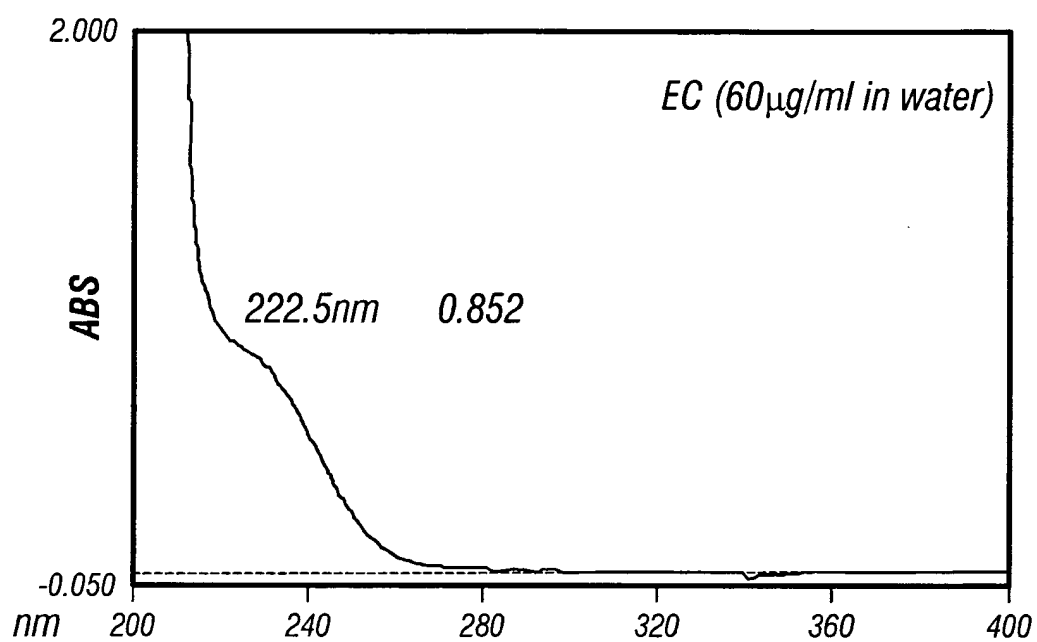


FIG. 40A

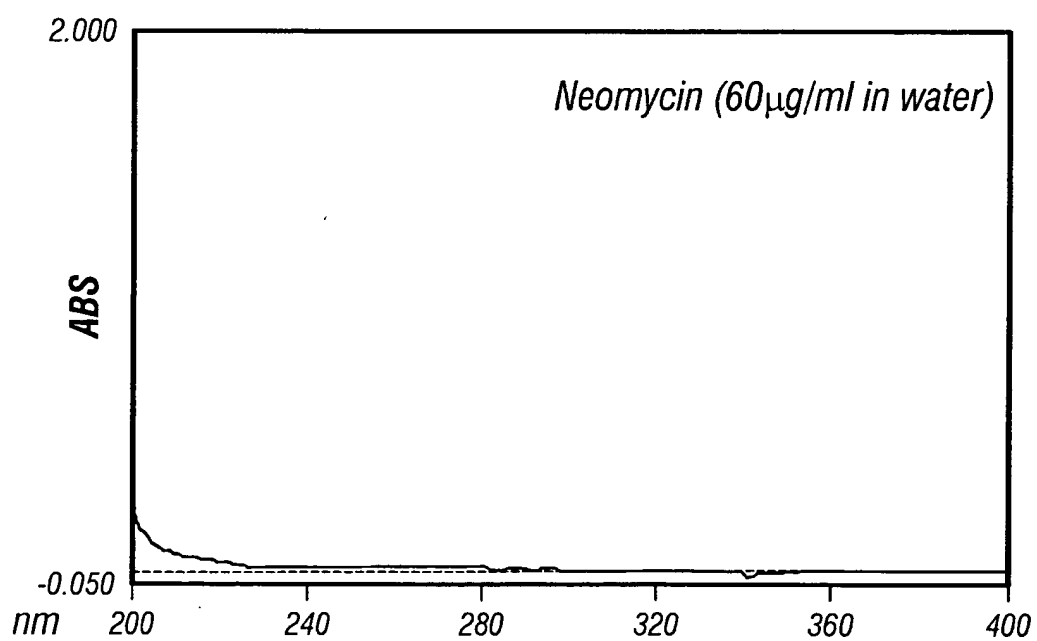


FIG. 40B

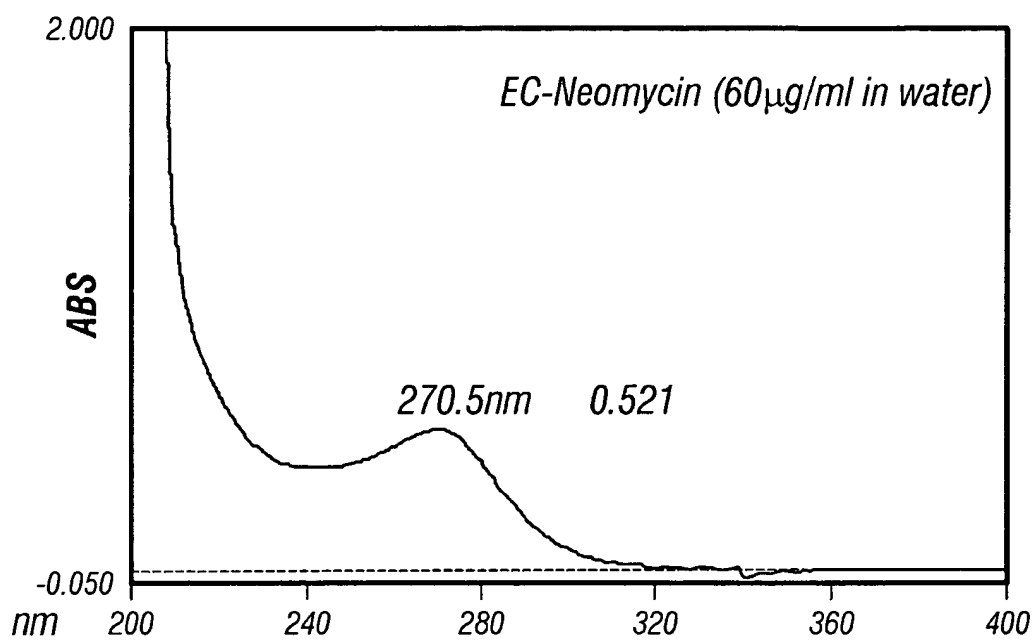


FIG. 40C

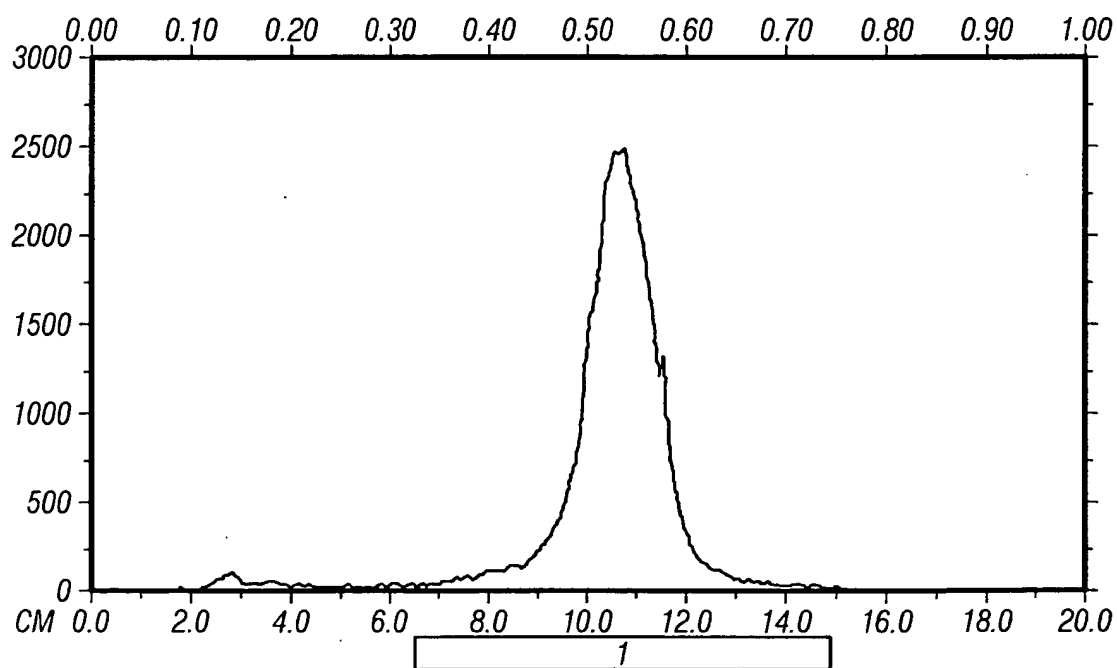


FIG. 41

^{99m}Tc -EC-NEO

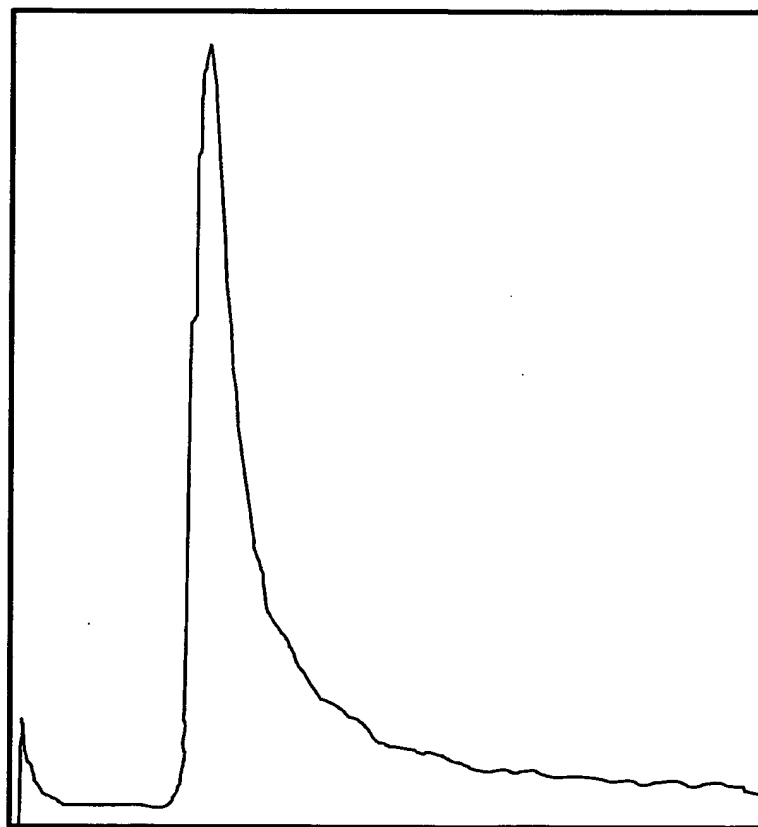


FIG. 42

^{99m}Tc -EC-NEO

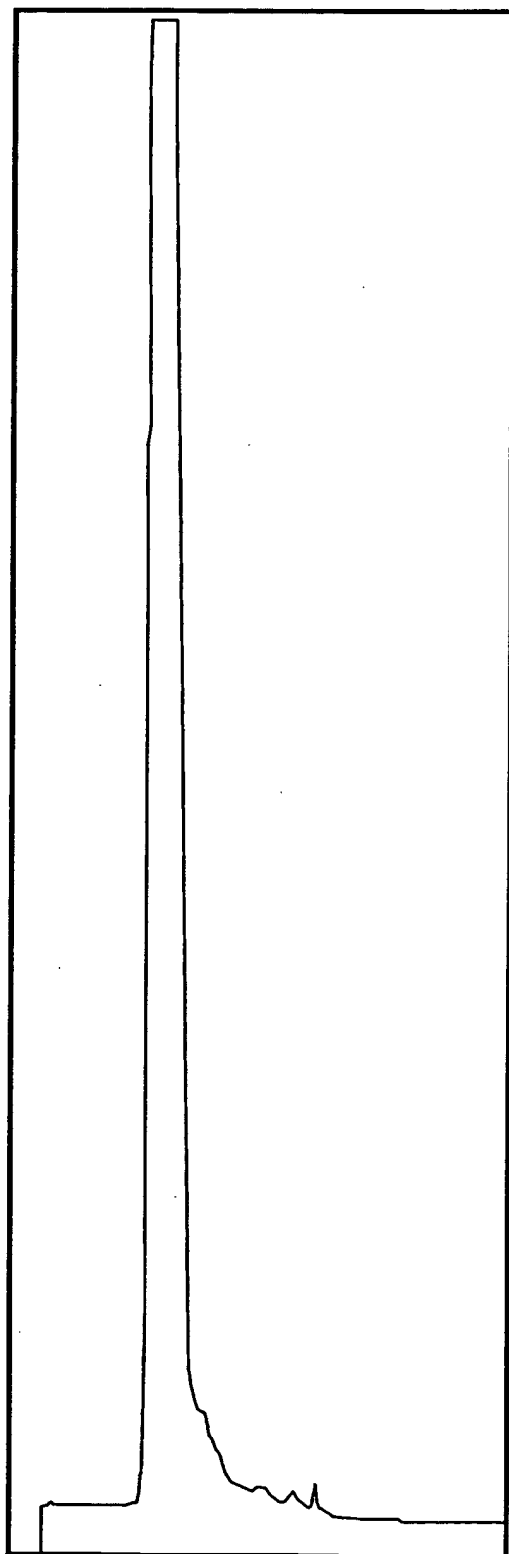


FIG. 43

^{18}F -FDG

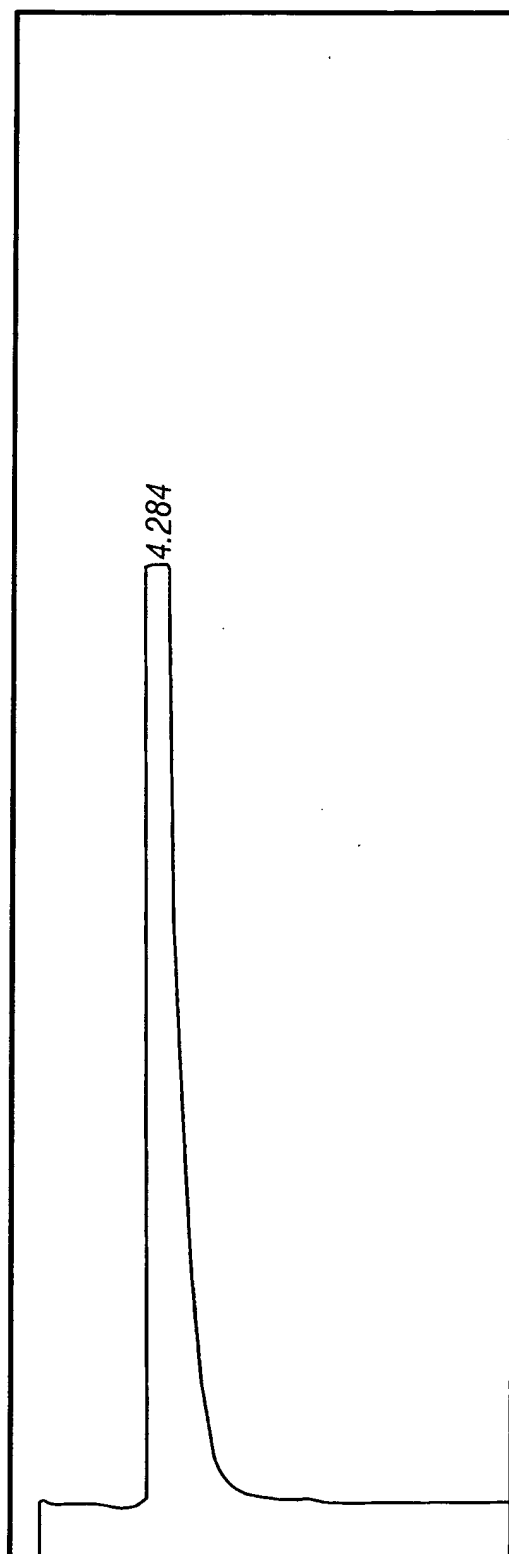


FIG. 44

^{18}F -FDG

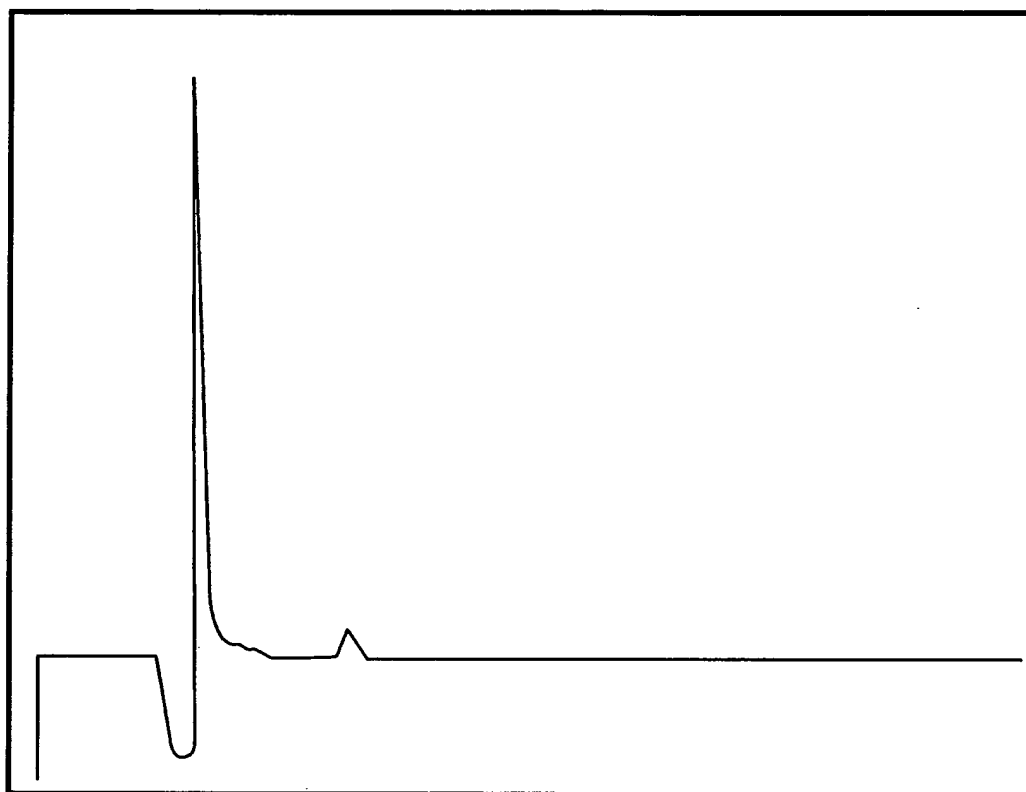


FIG. 45

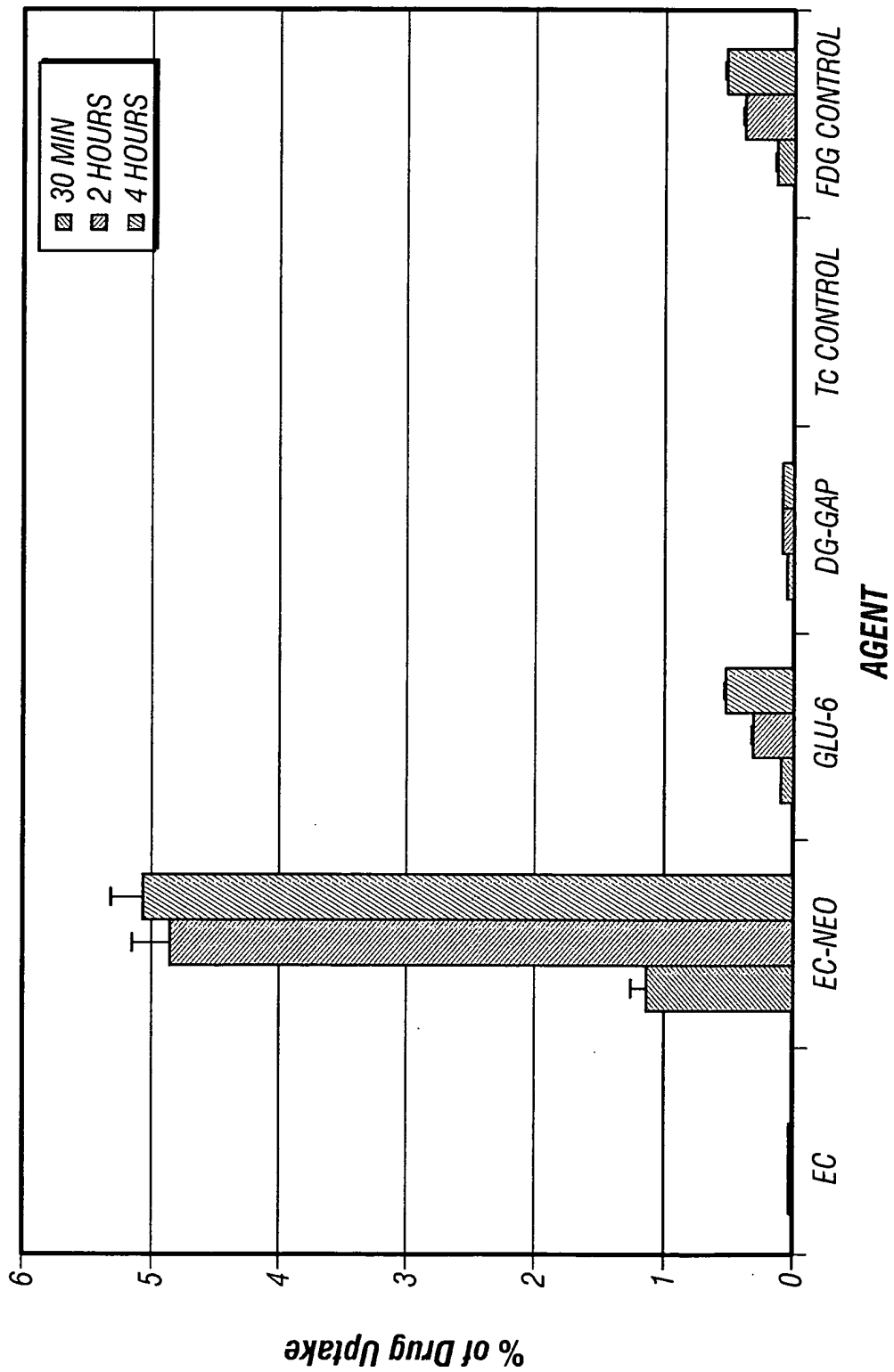


FIG. 46

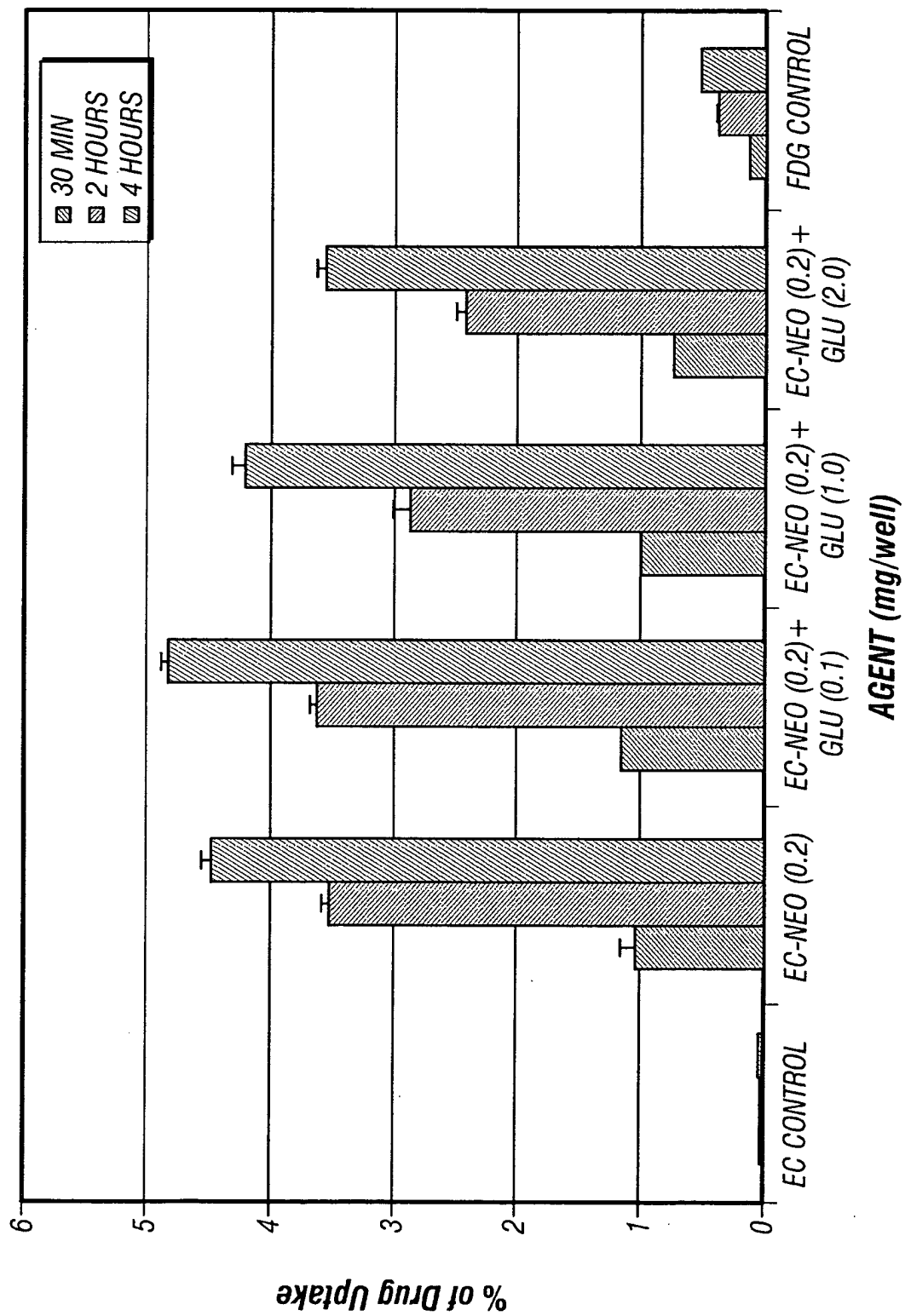


FIG. 47

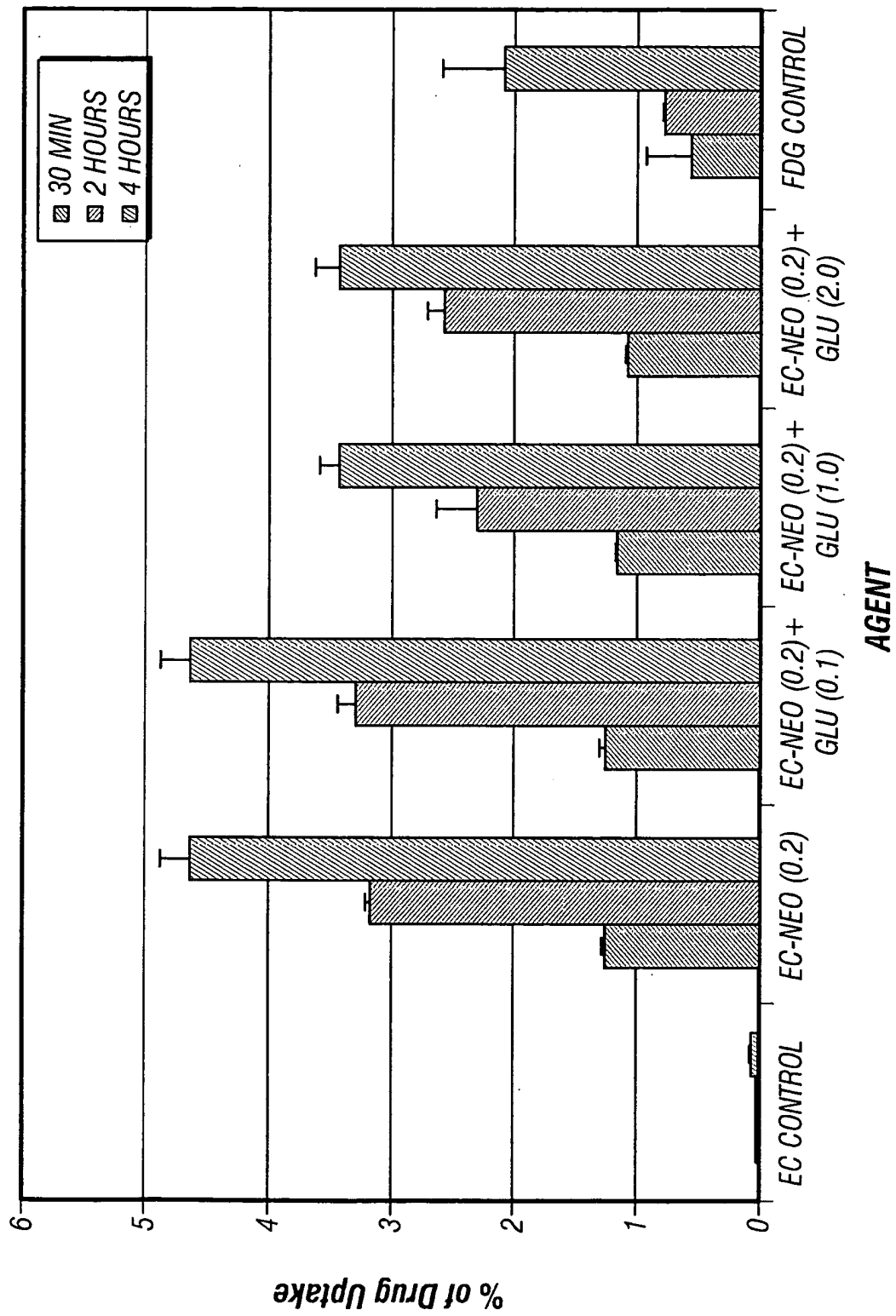
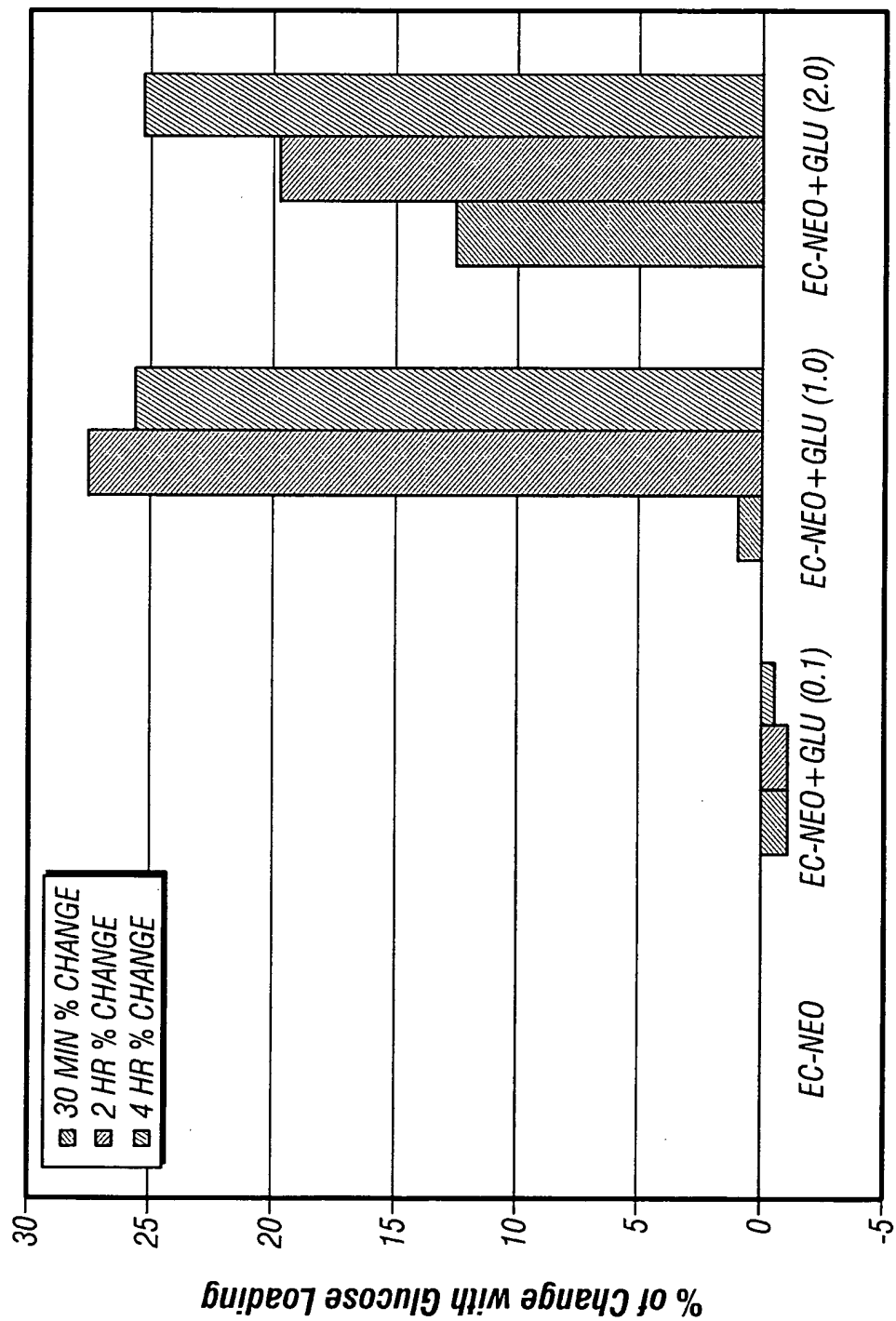


FIG. 48A



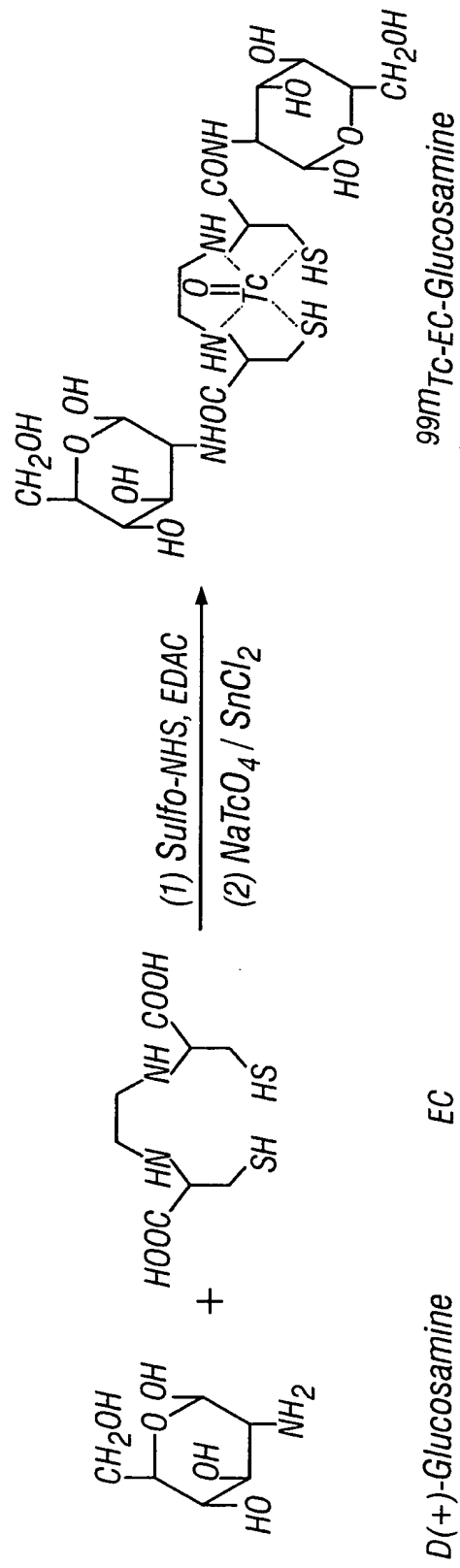


FIG. 49

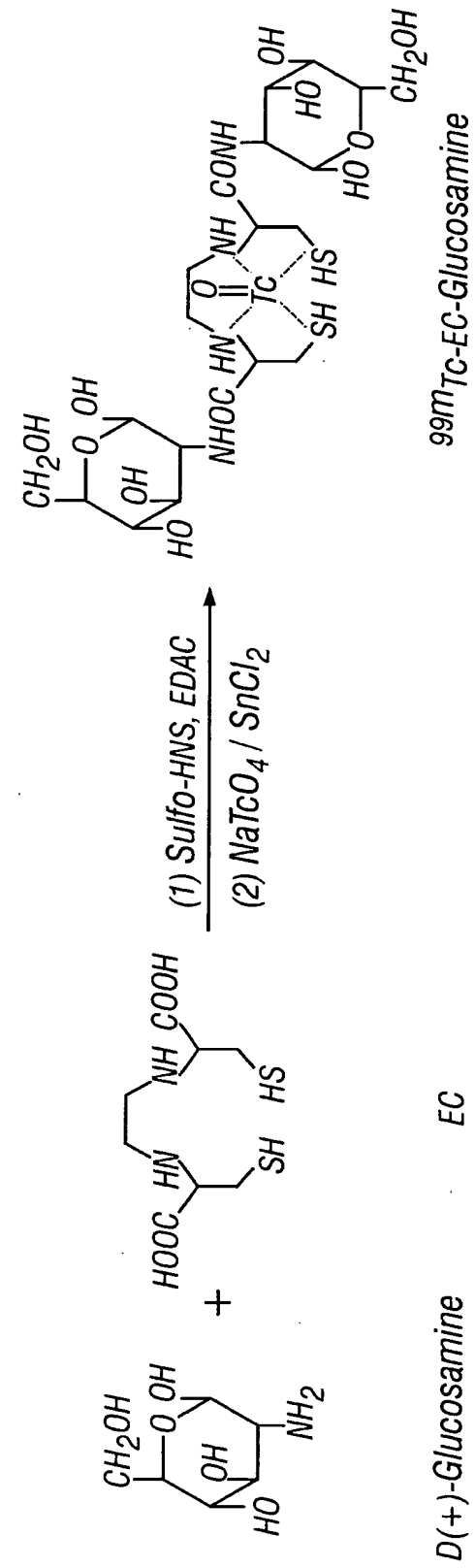


FIG. 59

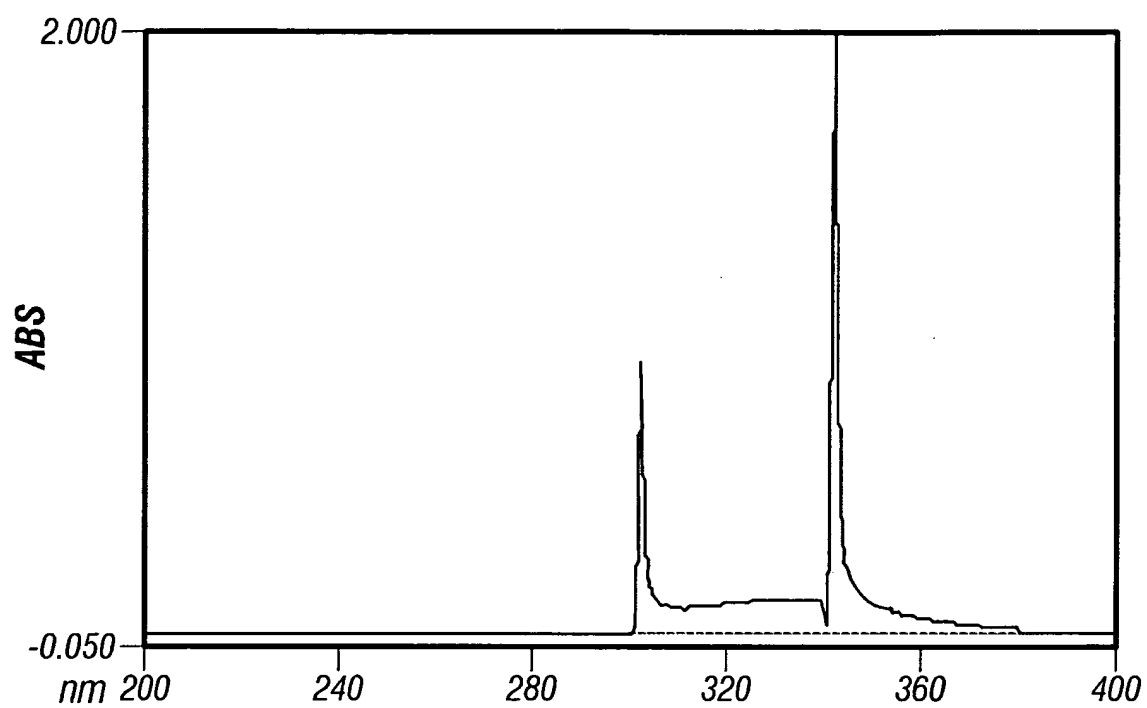


FIG. 50

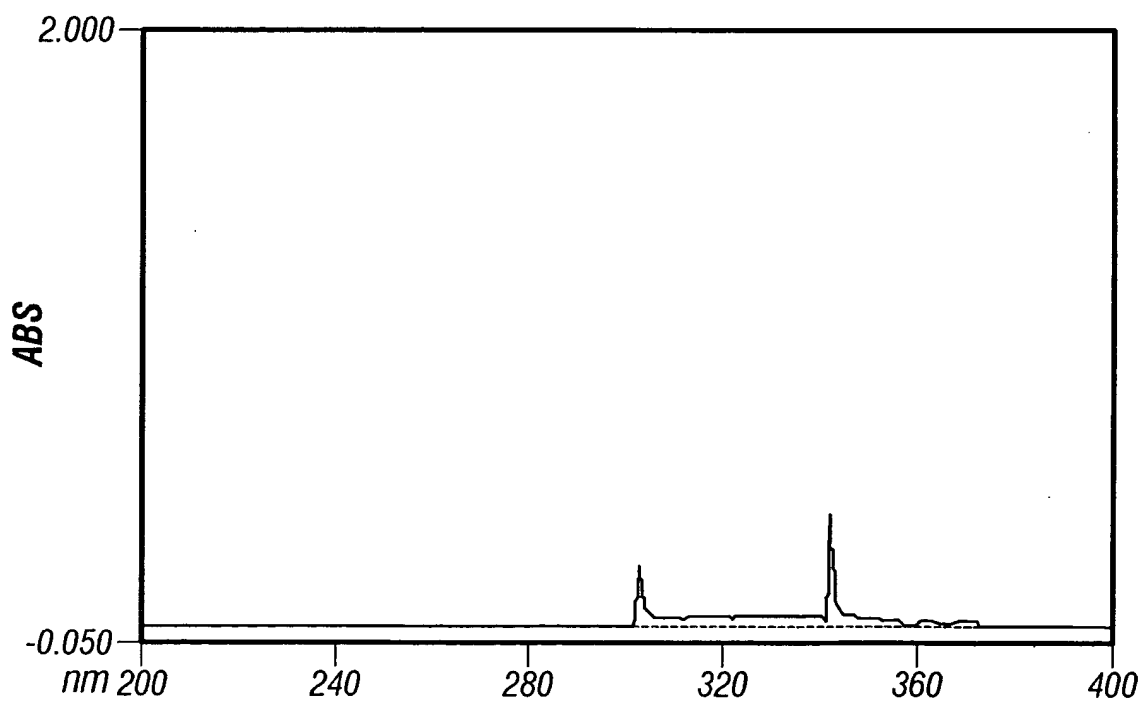


FIG. 51

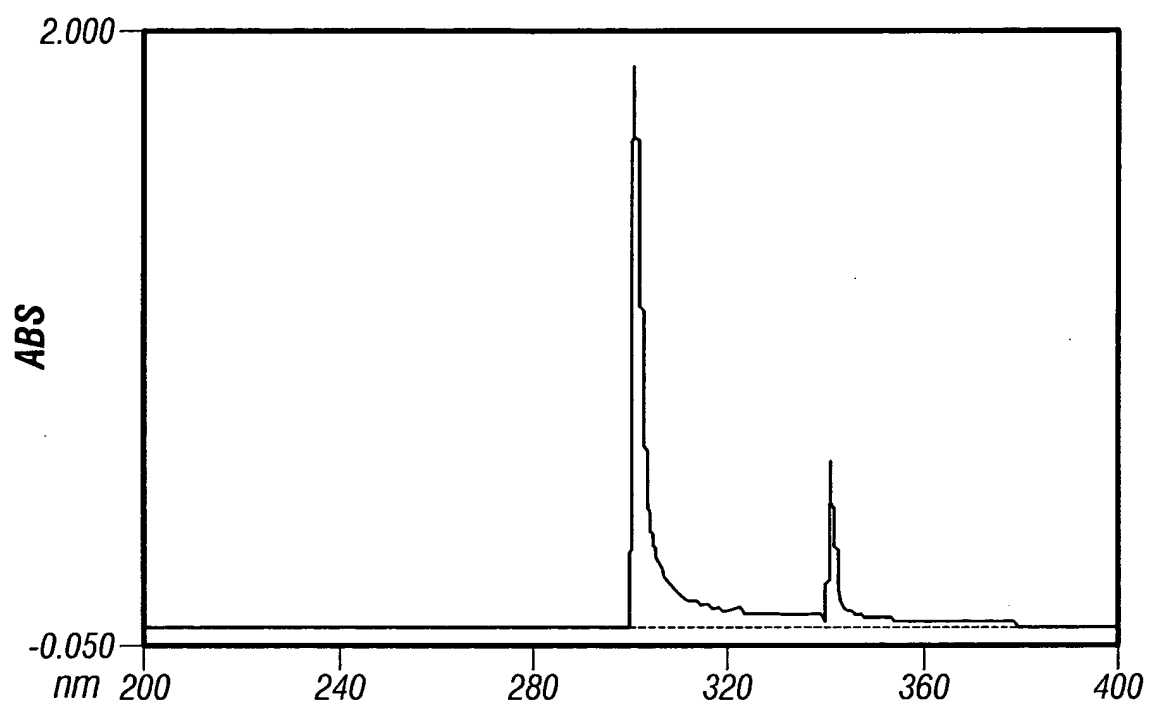


FIG. 52

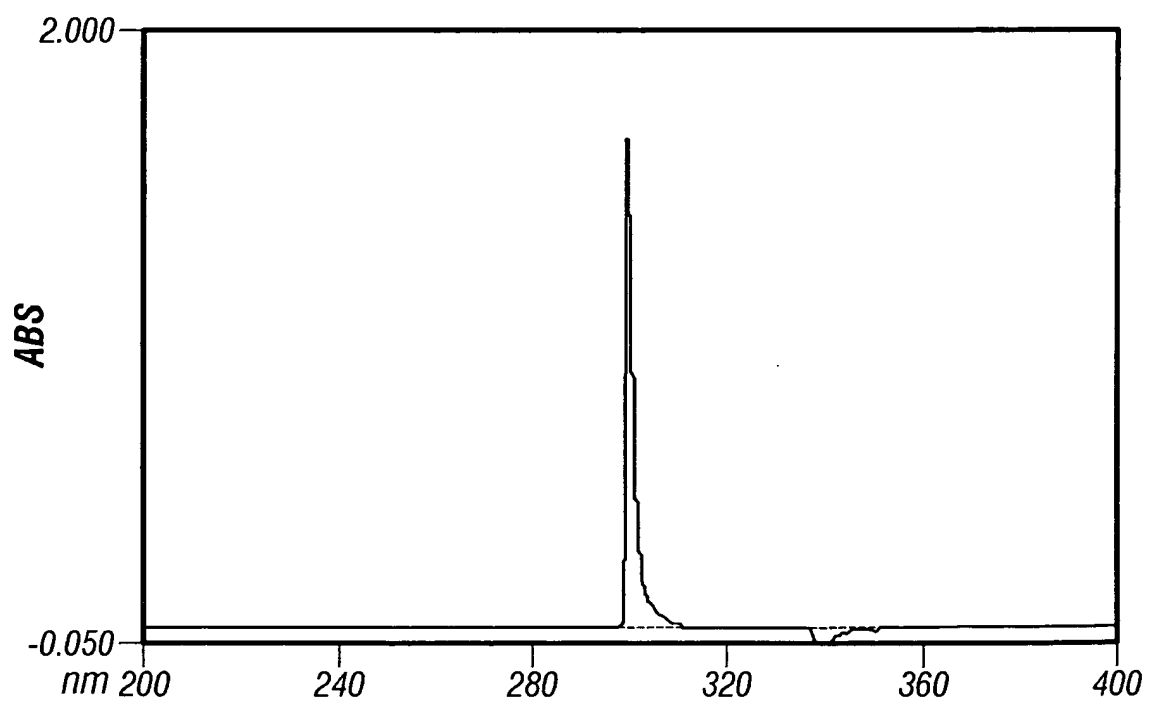
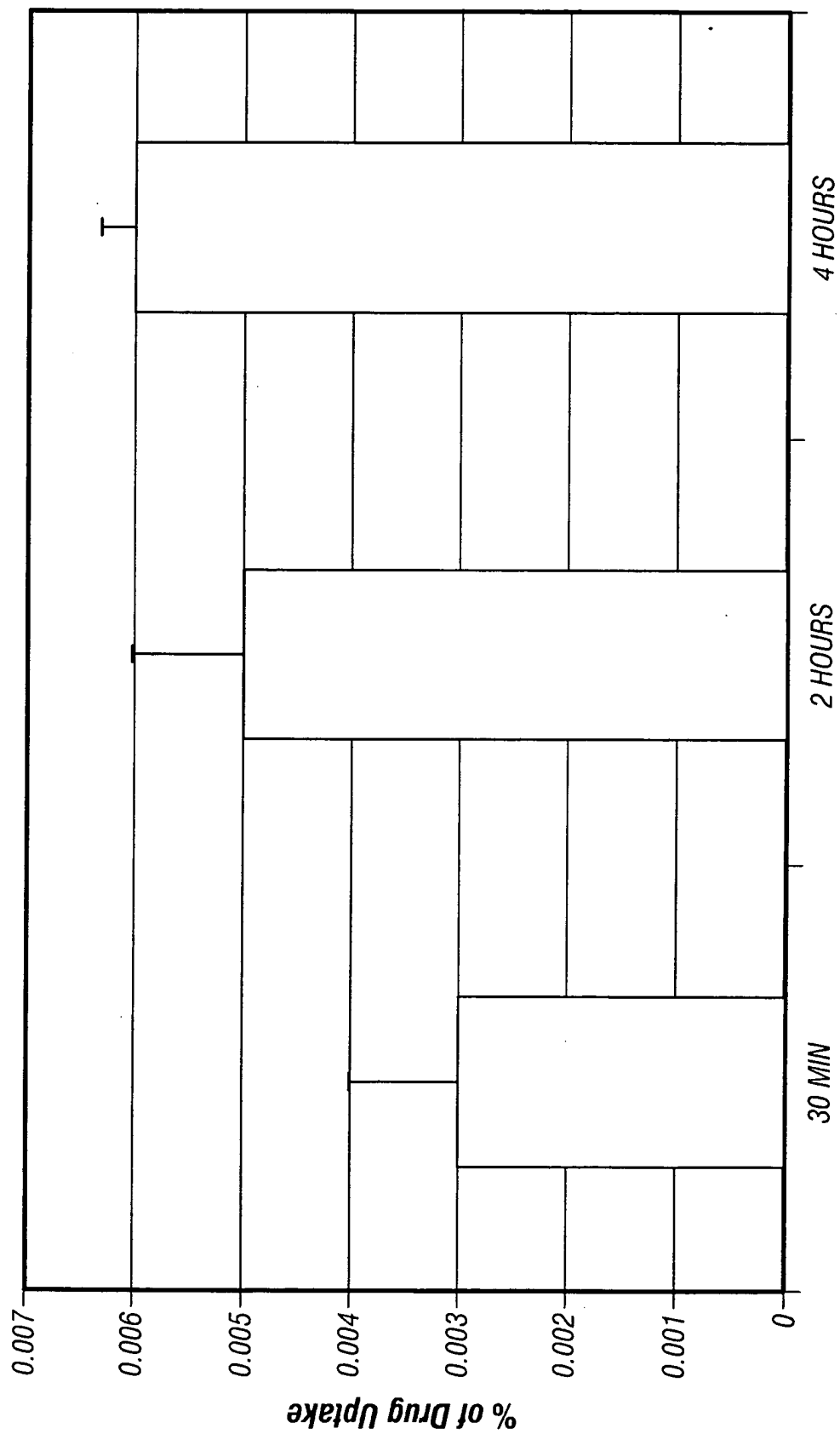


FIG. 53



TIME
FIG. 55A

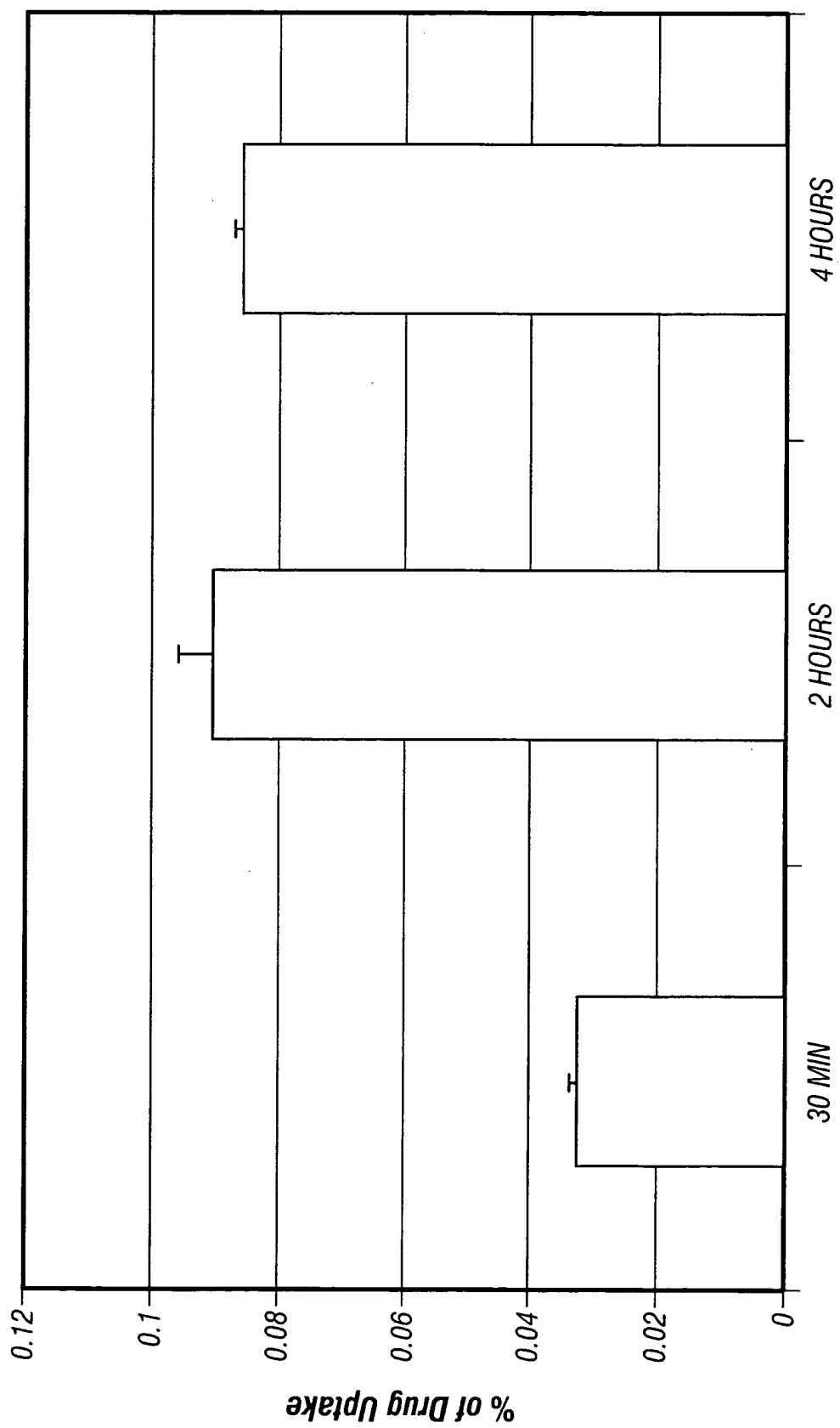
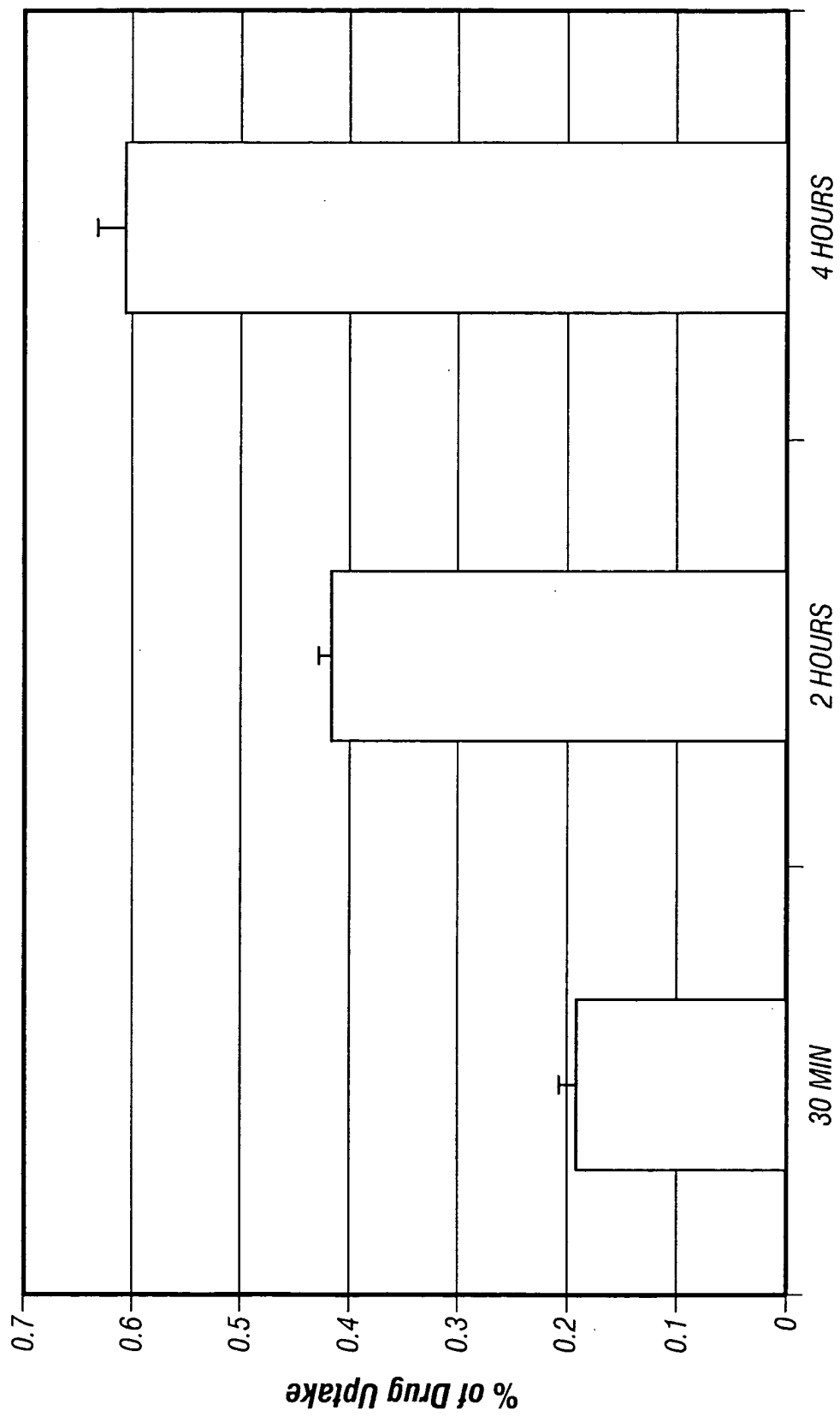
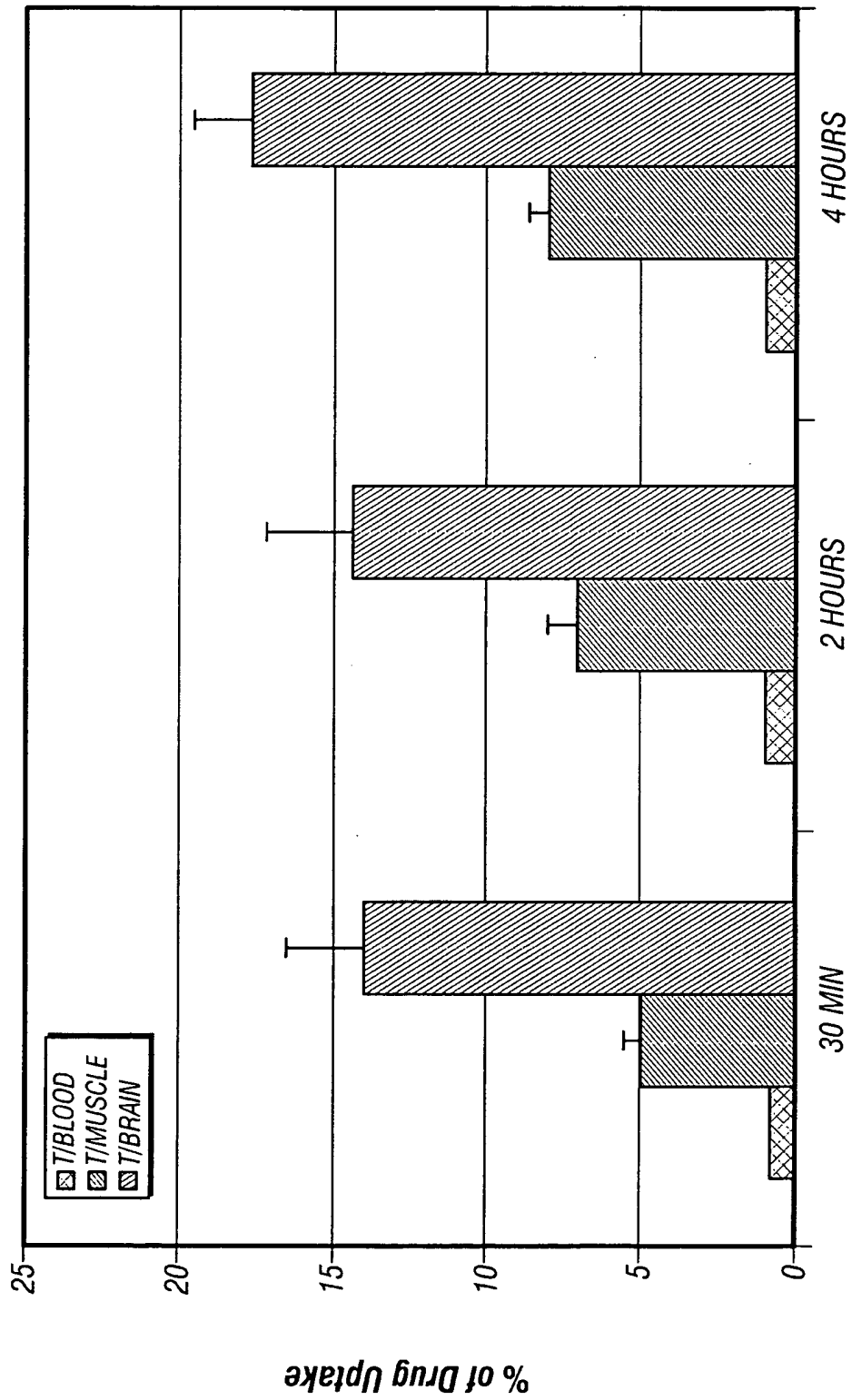


FIG. 55B

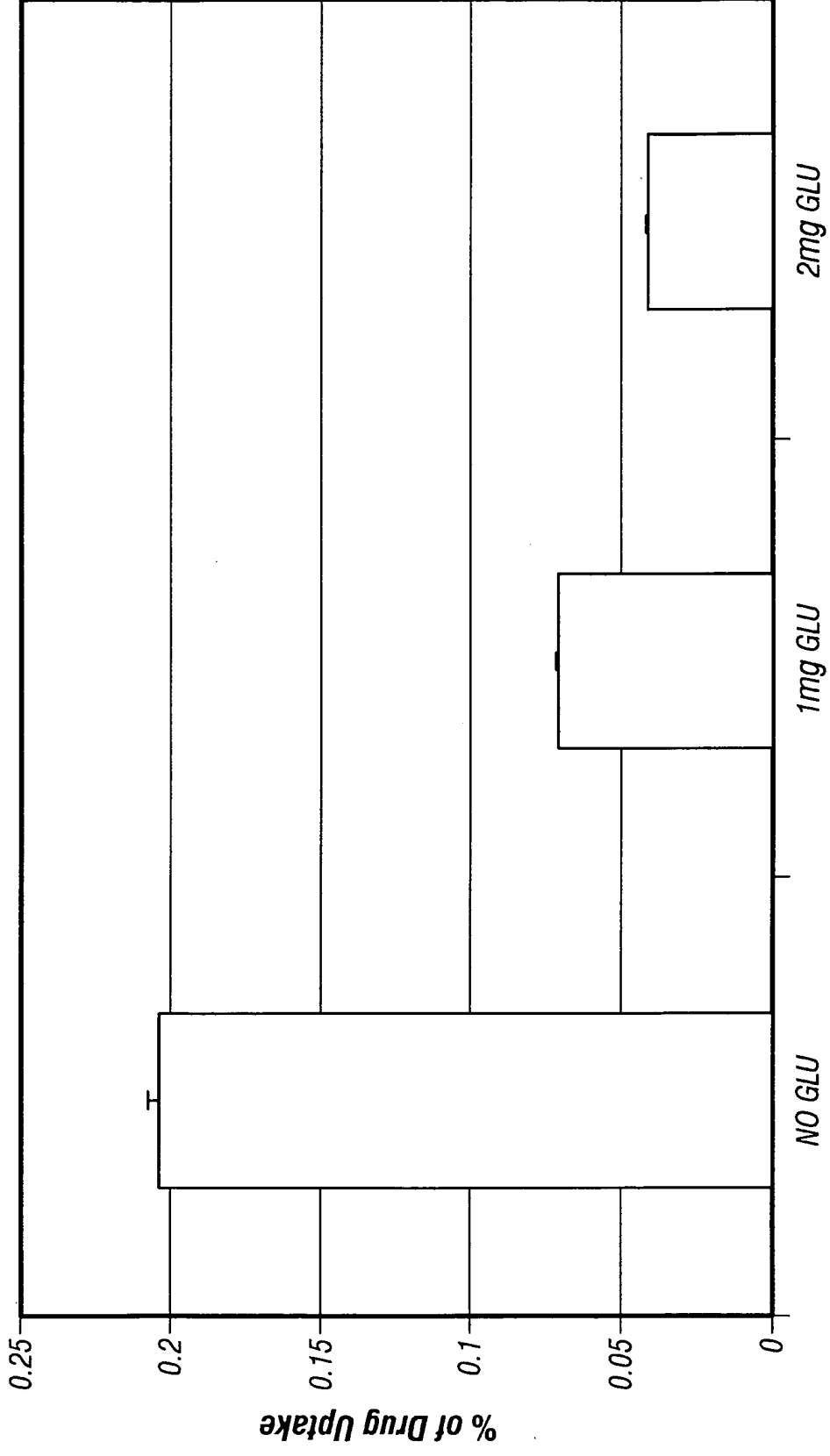


TIME
FIG. 55C

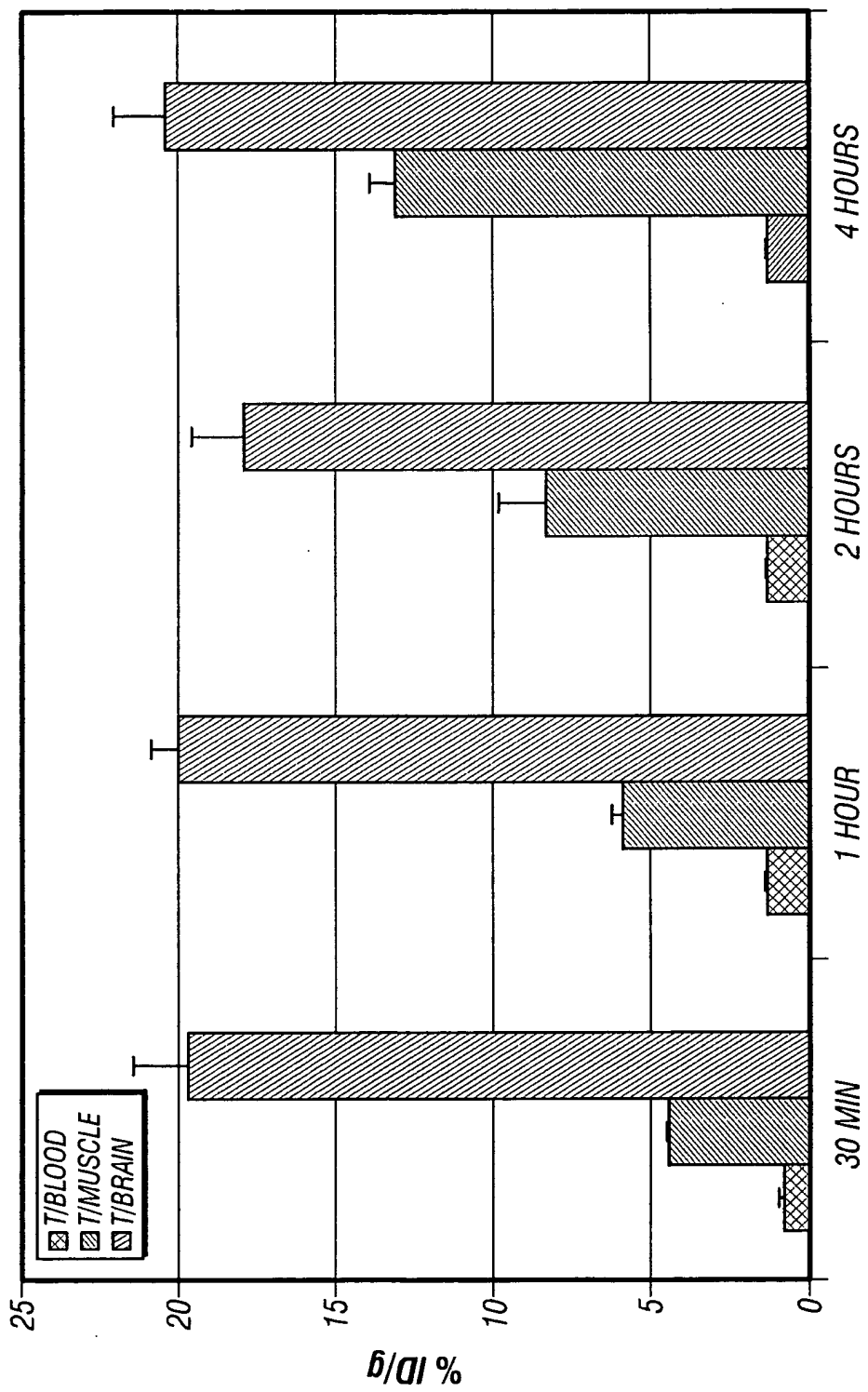


TIME

FIG. 56



GLUCOSE DOSAGE
FIG. 57



TIME
FIG. 58

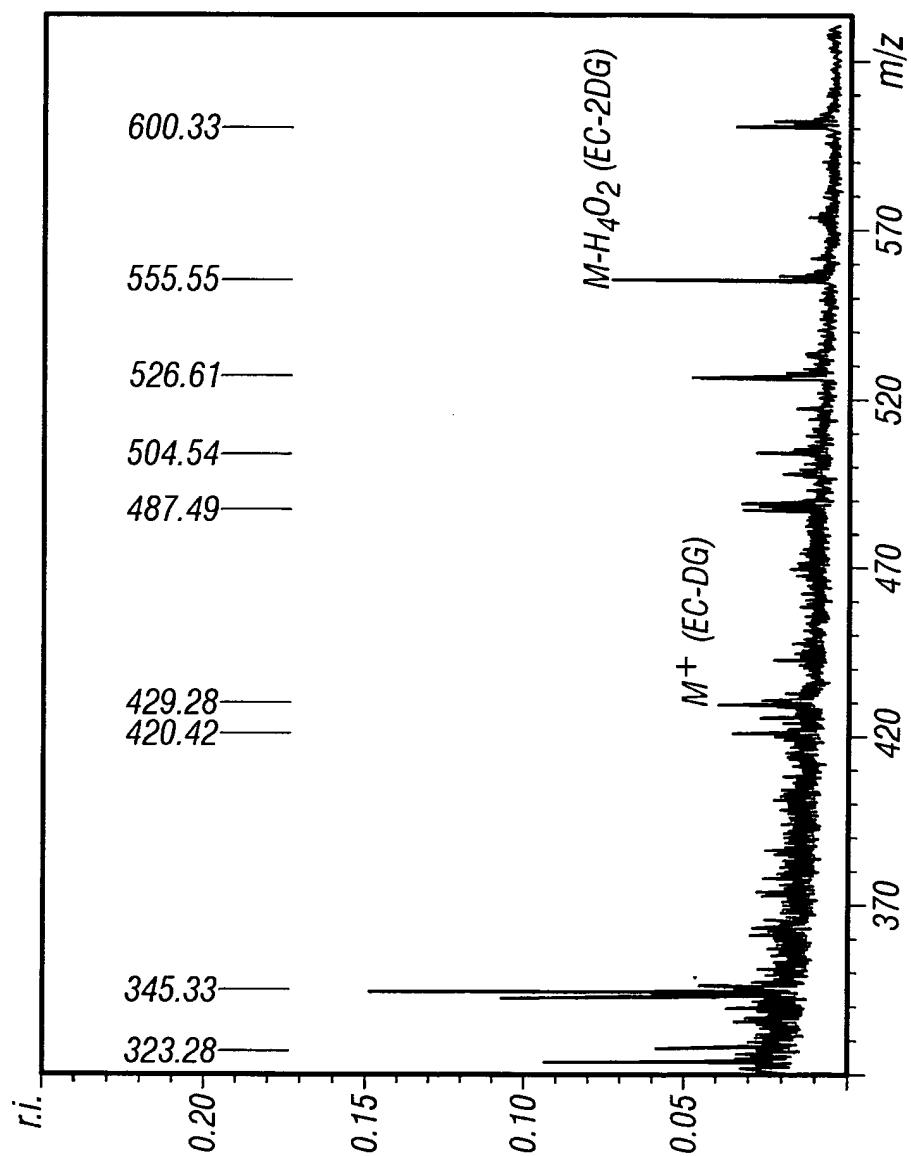


FIG. 60

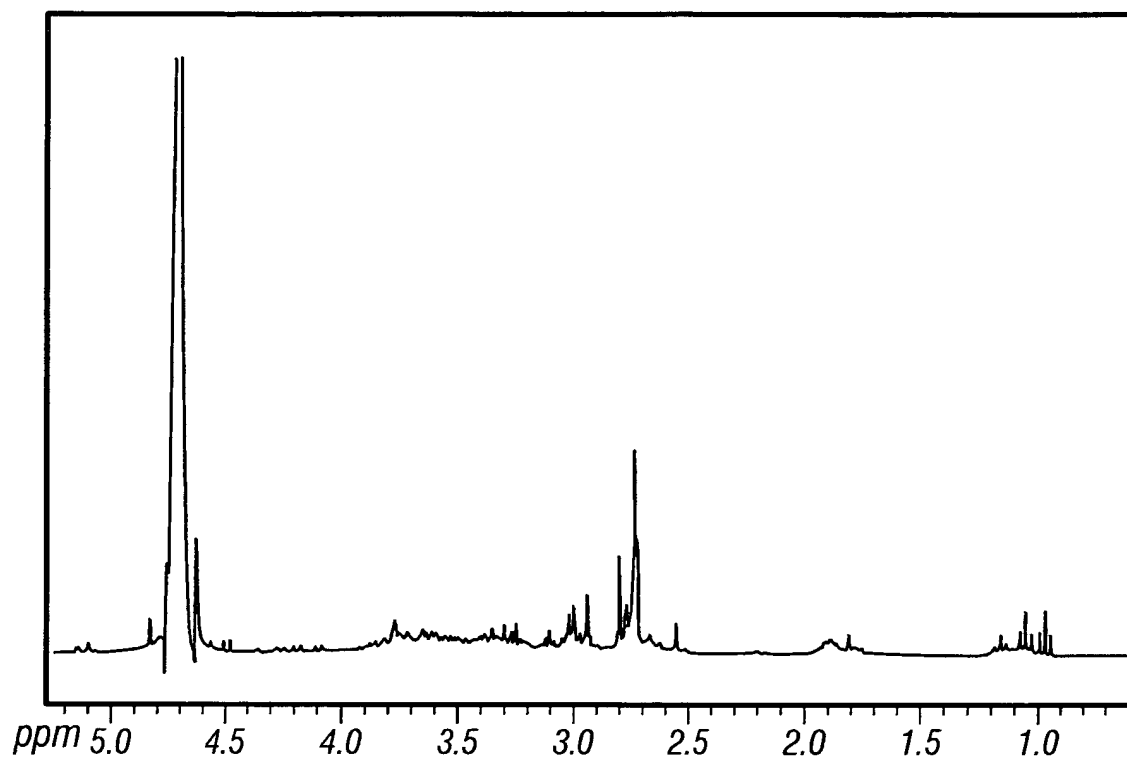


FIG. 61

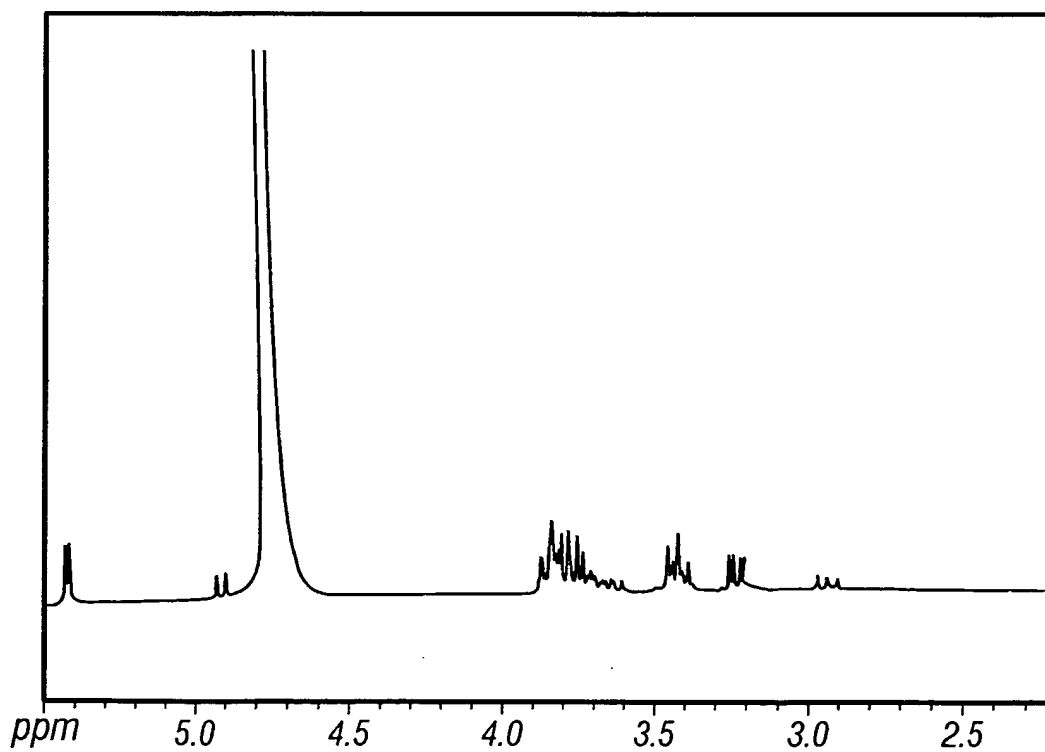


FIG. 62

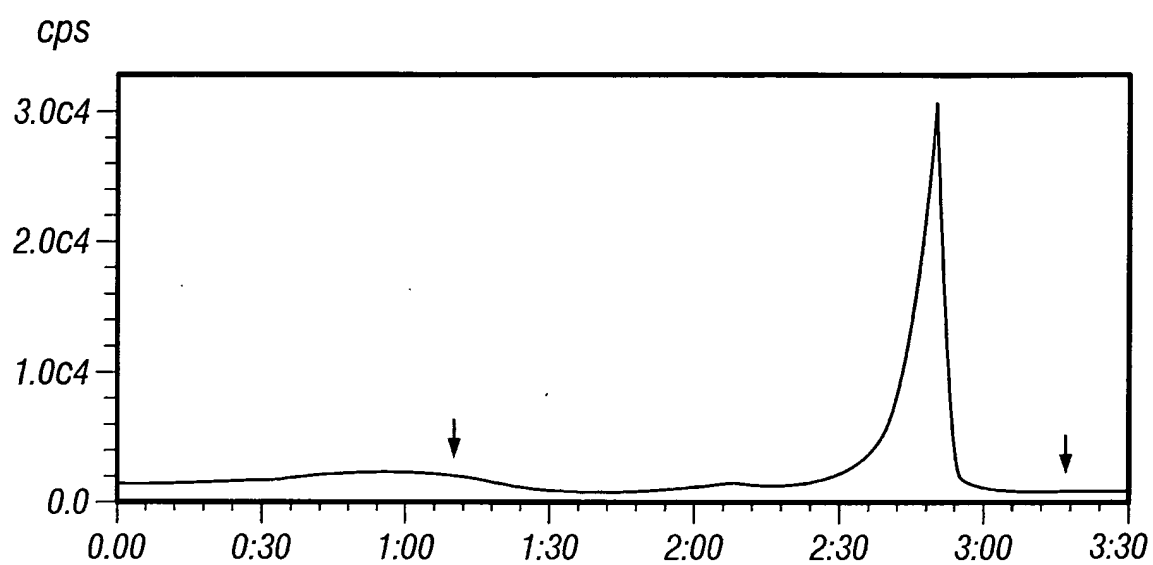


FIG. 63

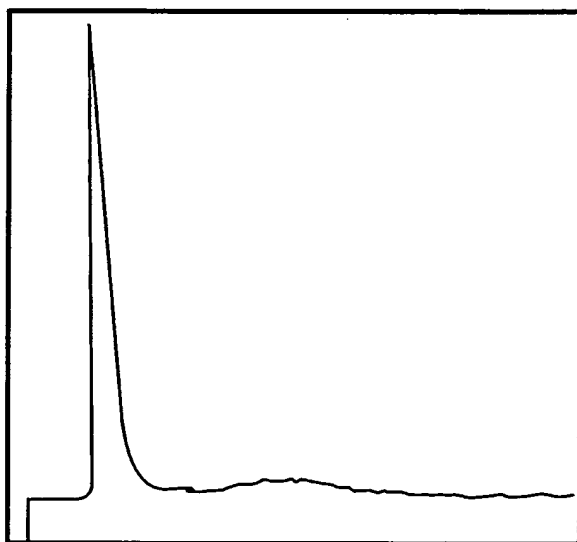


FIG. 64A

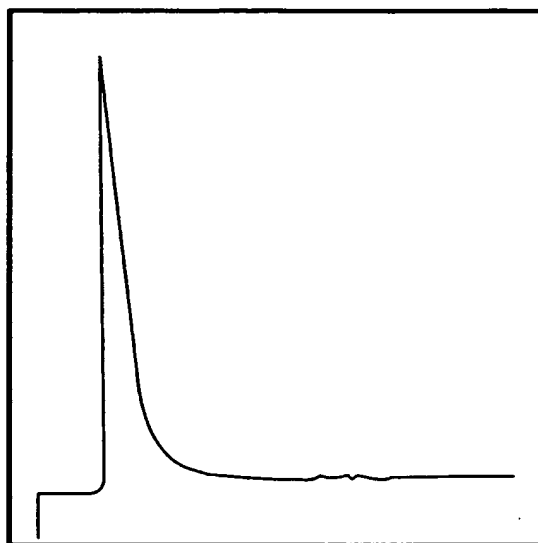


FIG. 64B

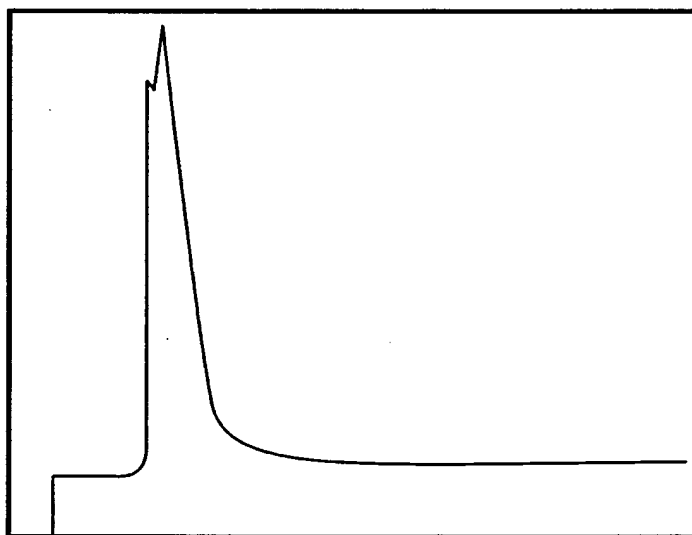


FIG. 65

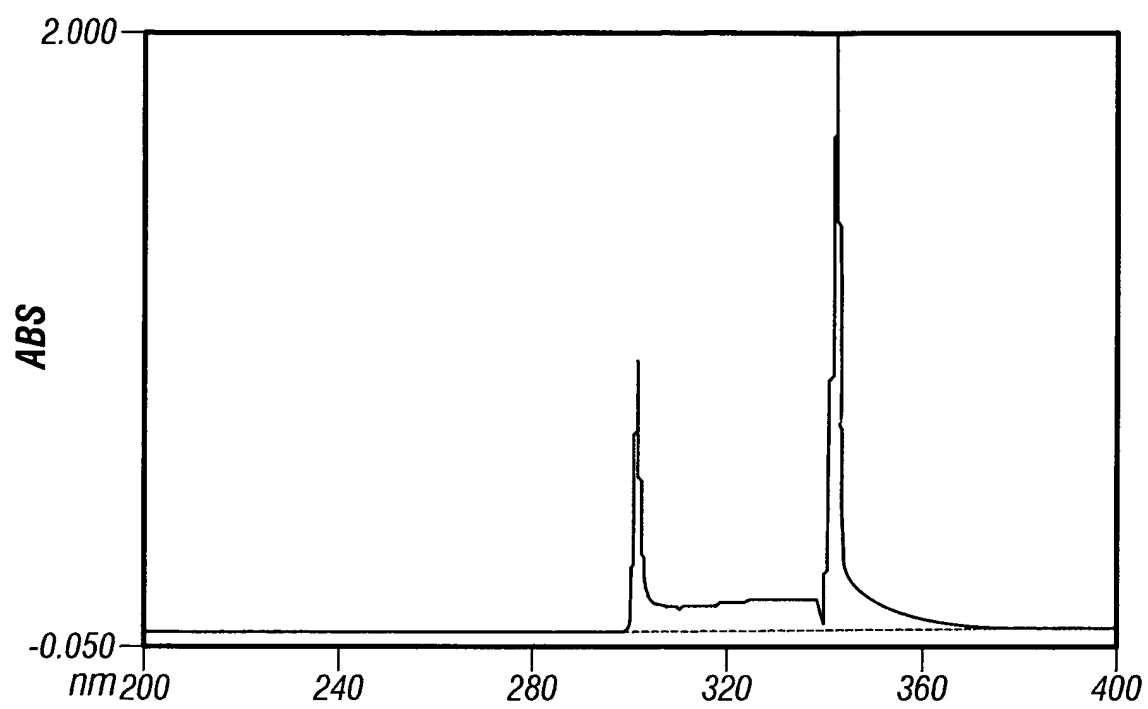


FIG. 66

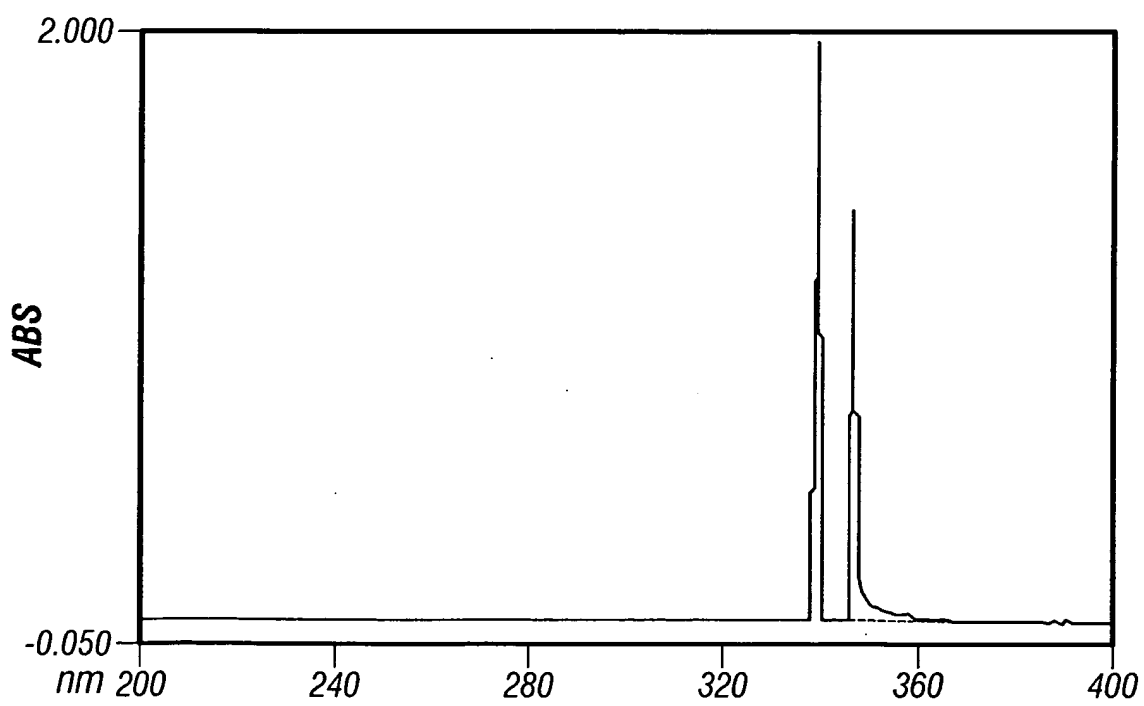


FIG. 67

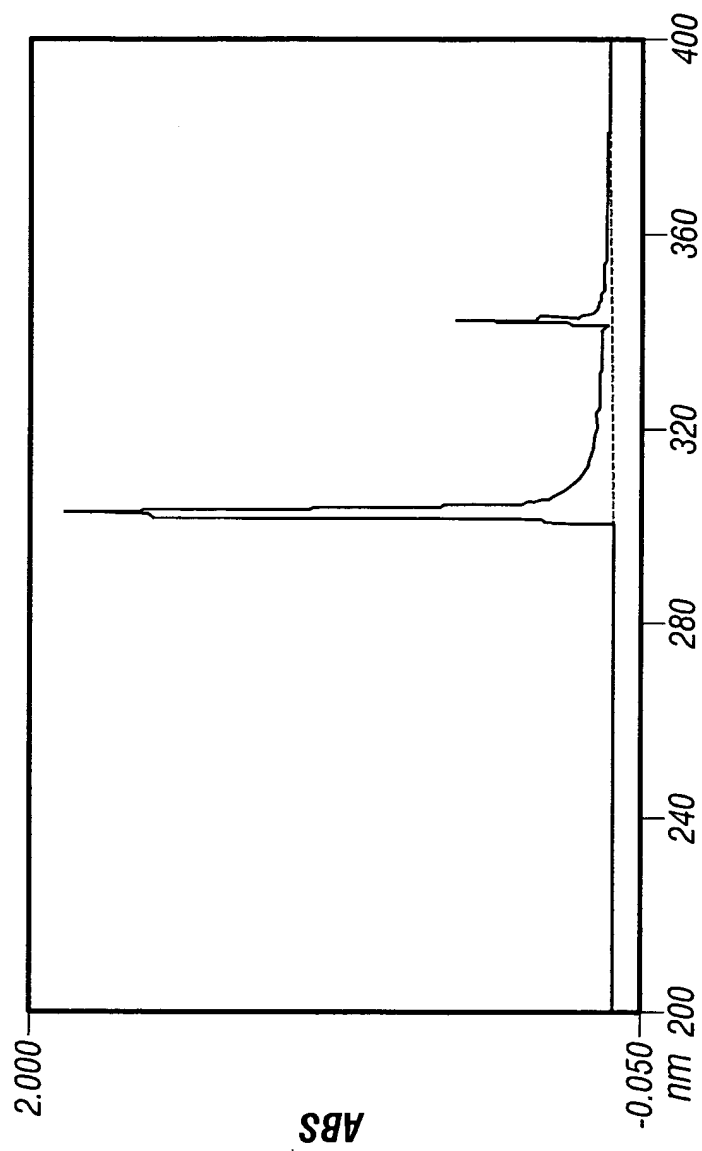
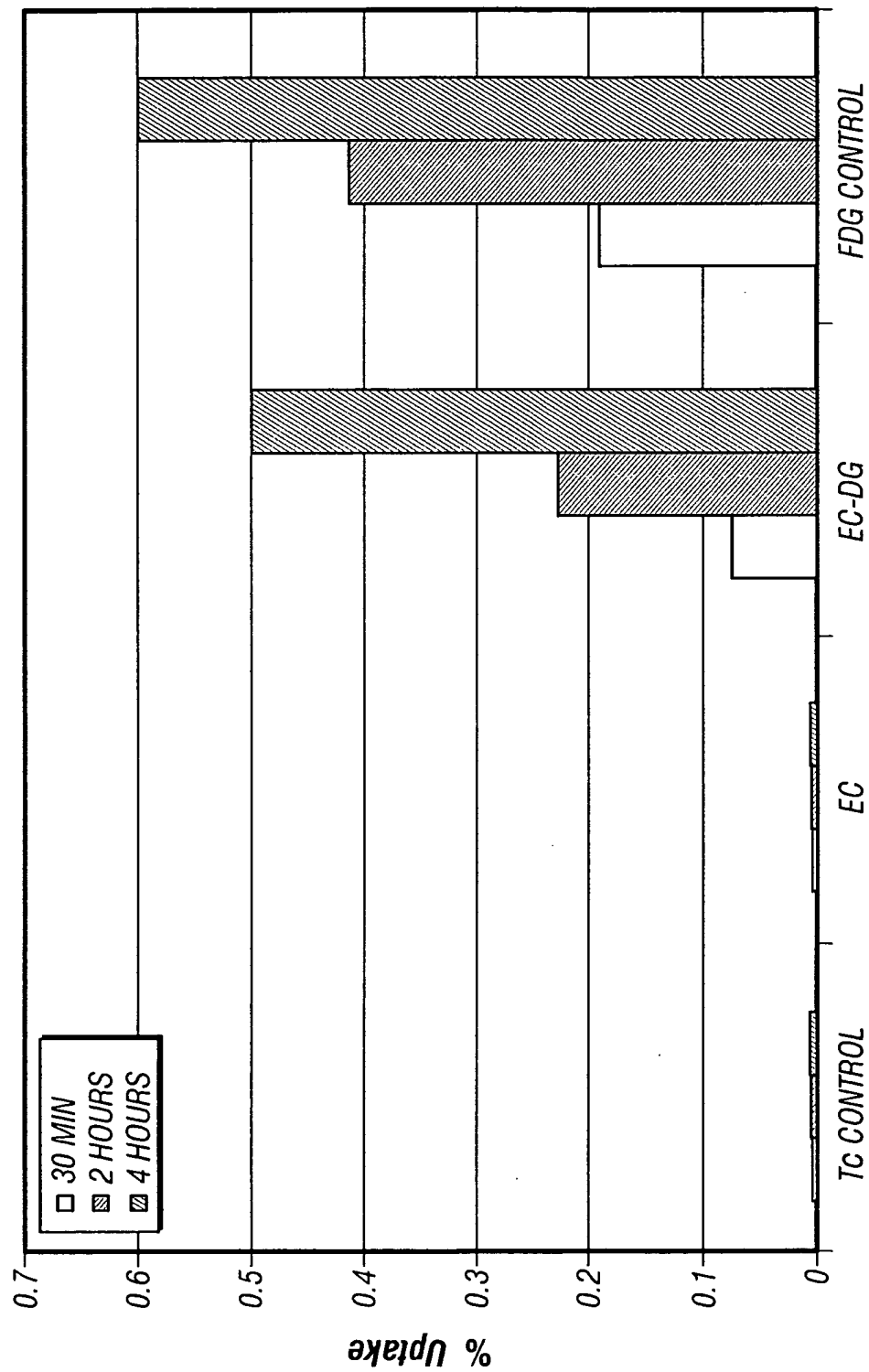
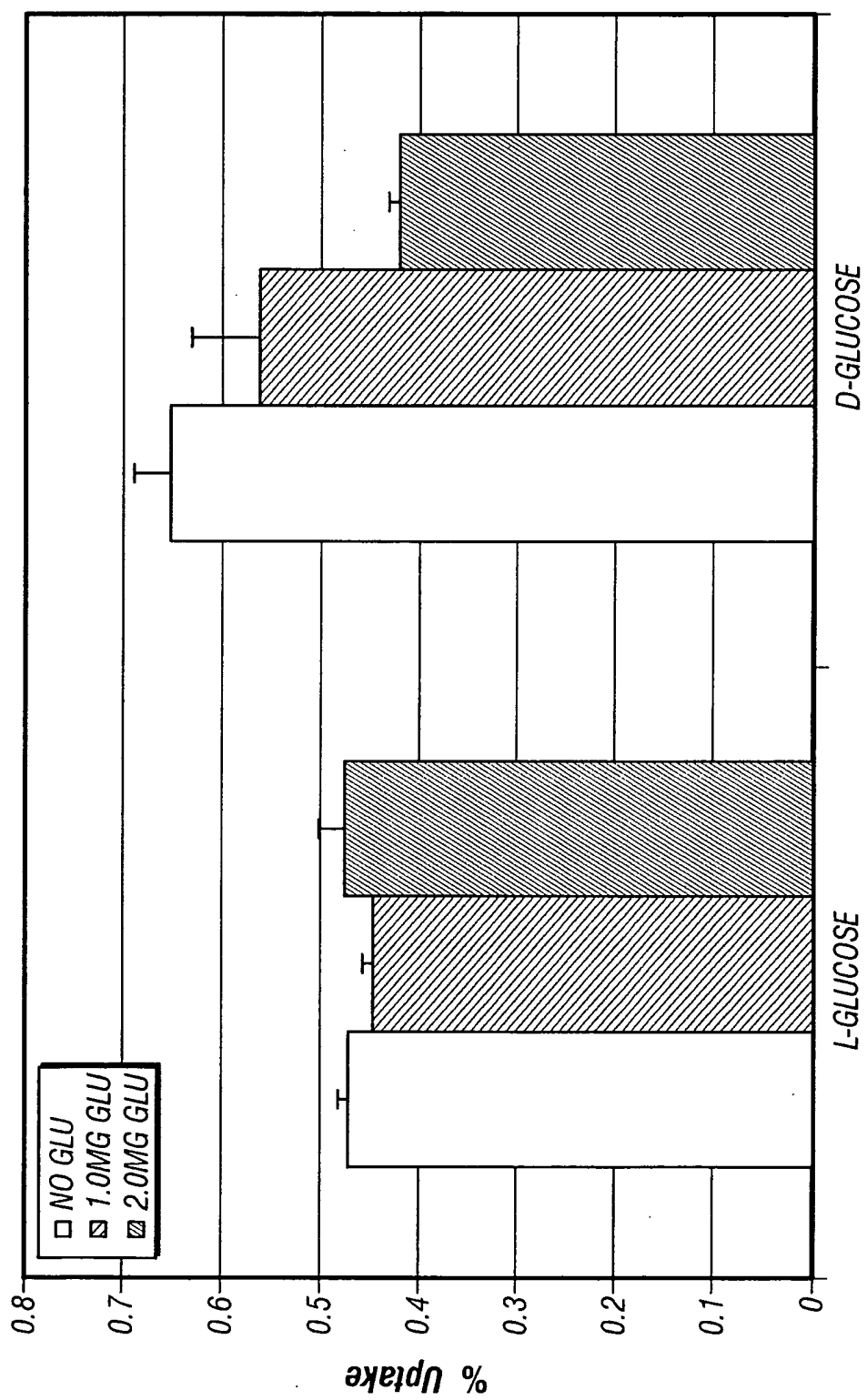


FIG. 68



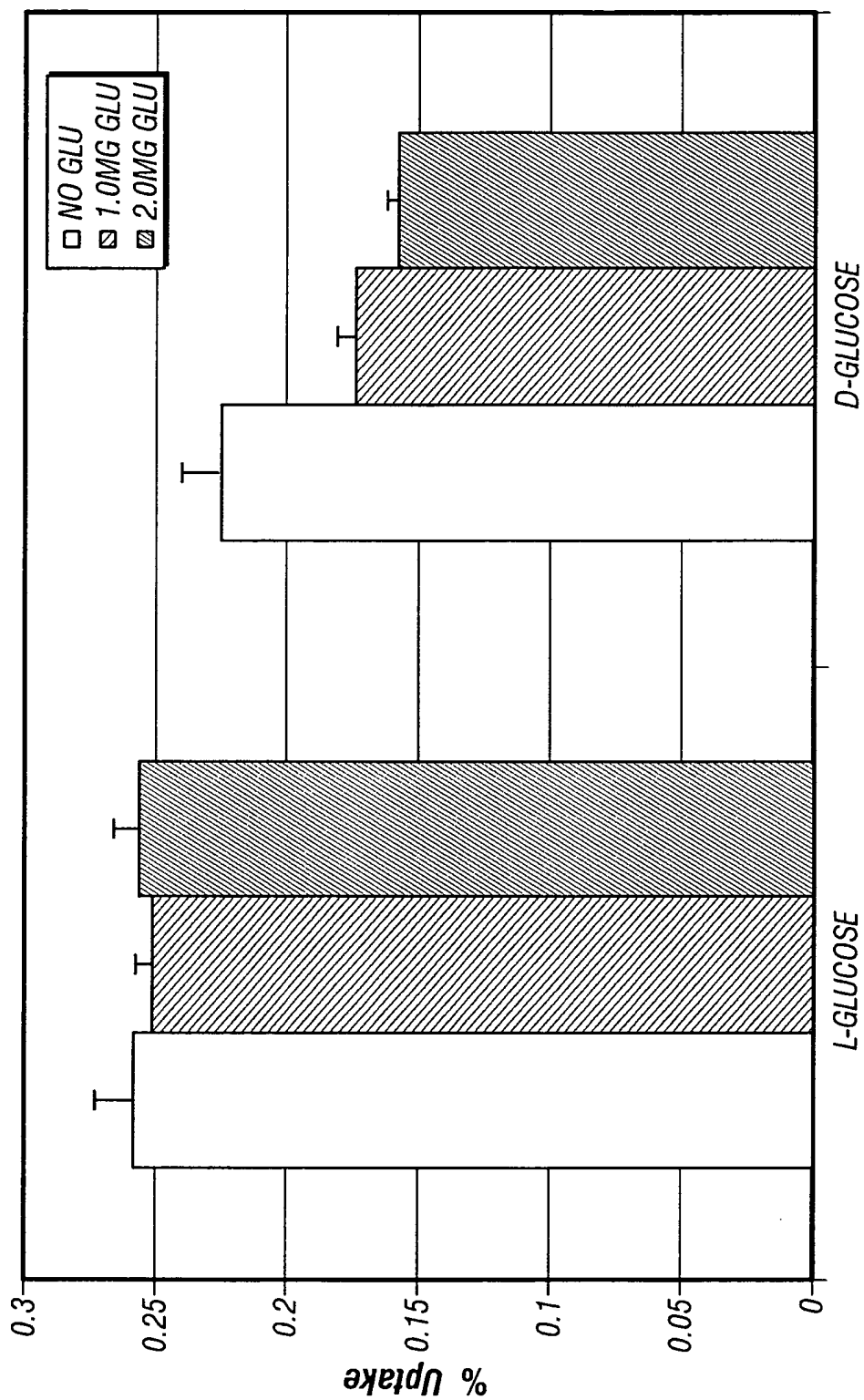
AGENTS

FIG. 69



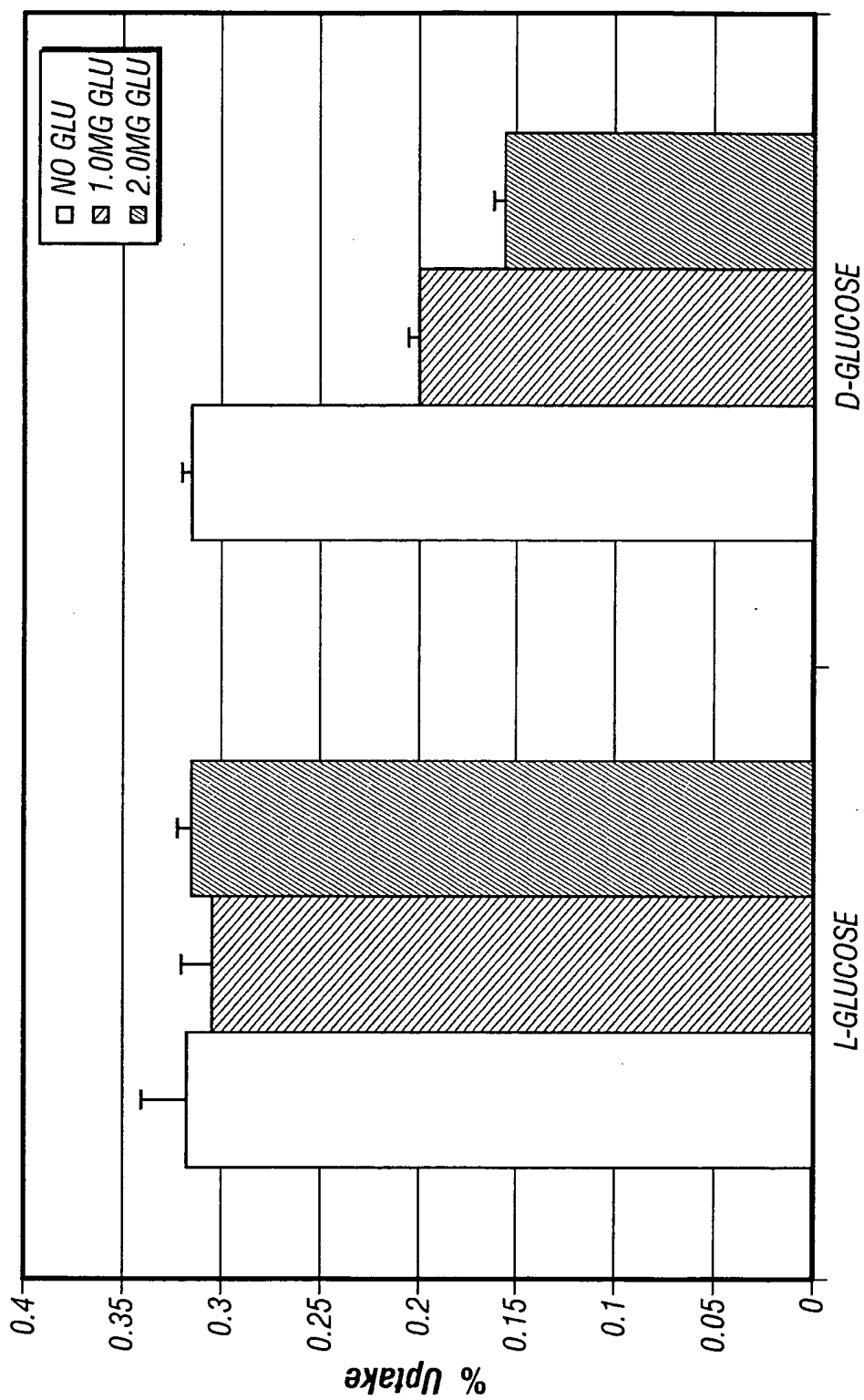
Glucose Isomer

FIG. 70



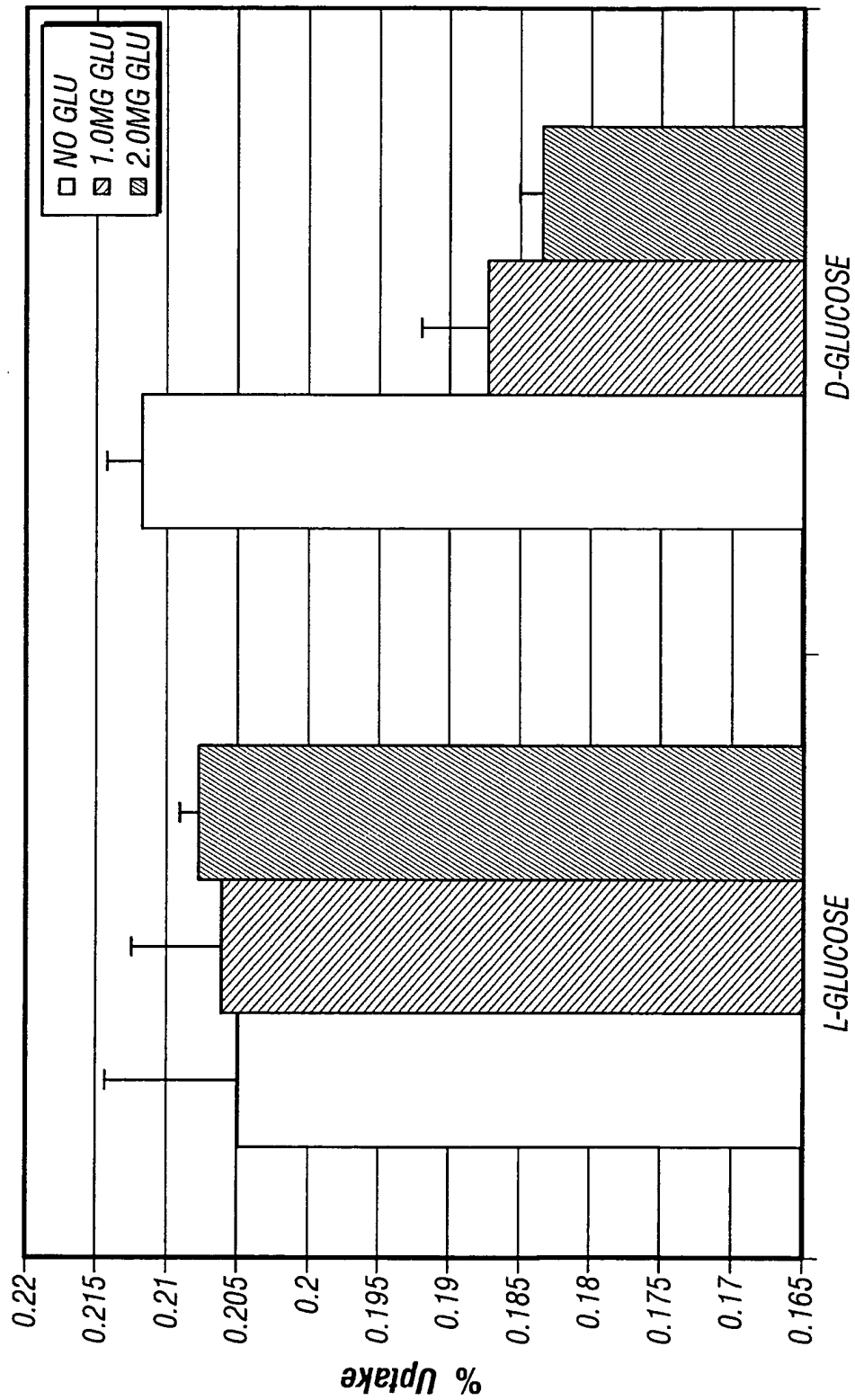
Glucose Isomer

FIG. 71



Glucose Isomer

FIG. 72



Glucose Isomer

FIG. 73

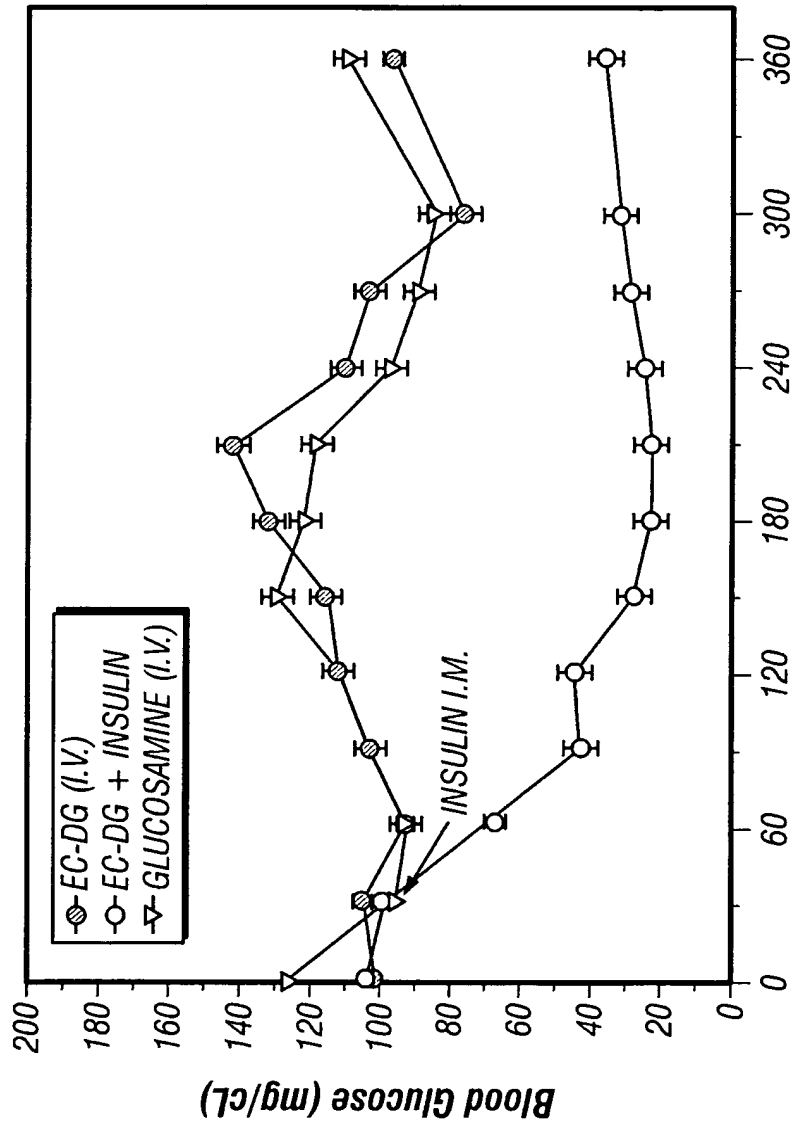


FIG. 74

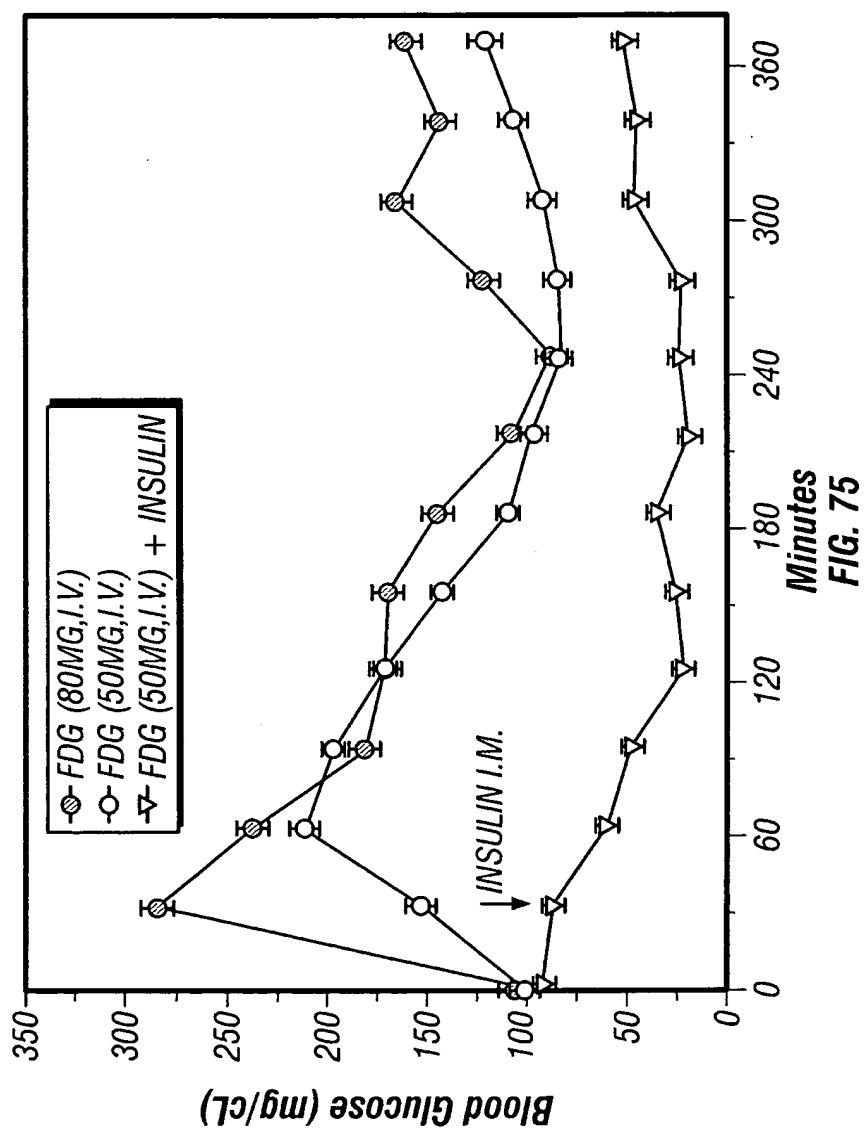
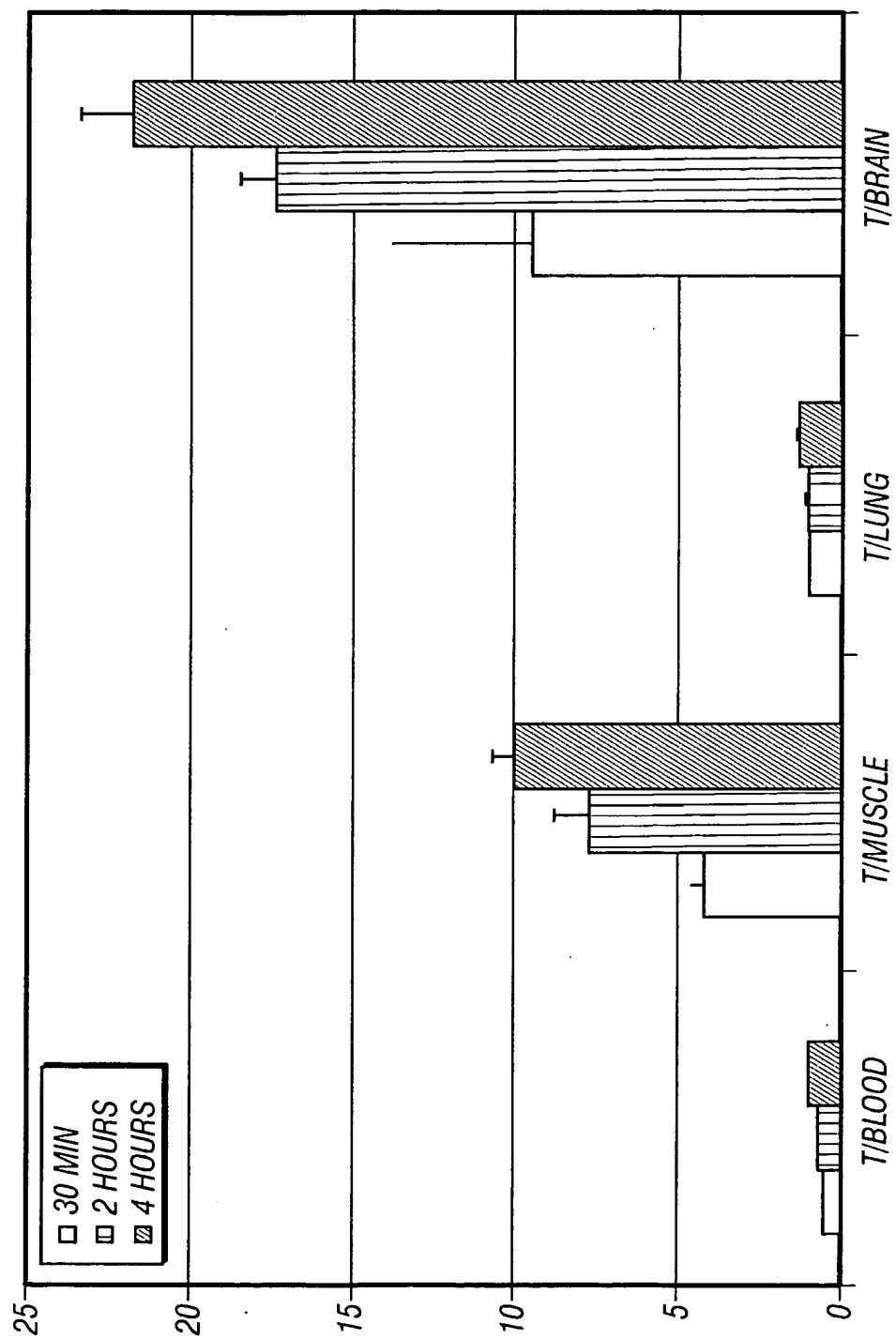
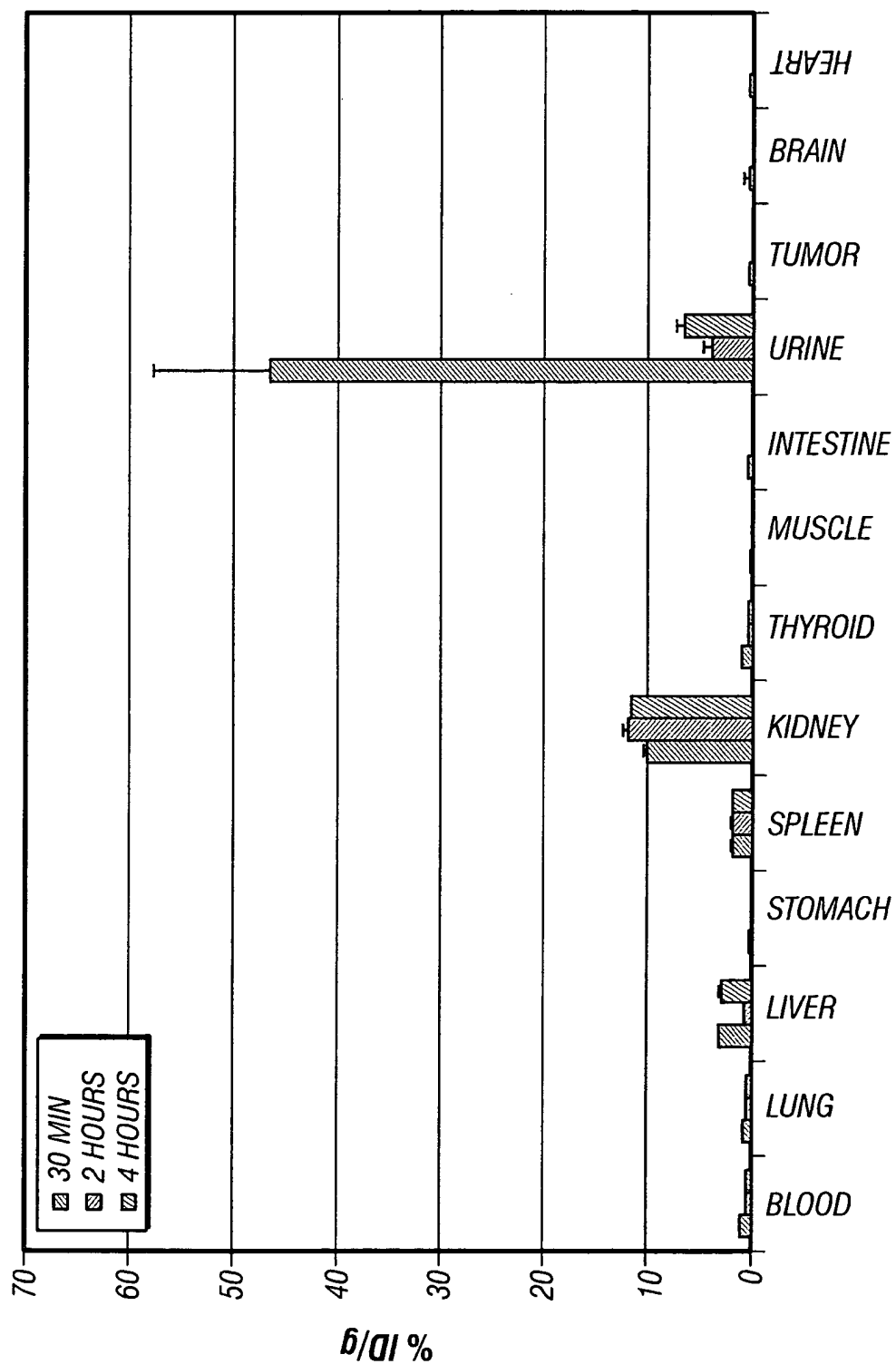


FIG. 75



T = Tumor

FIG. 76



ORGANS
FIG. 77

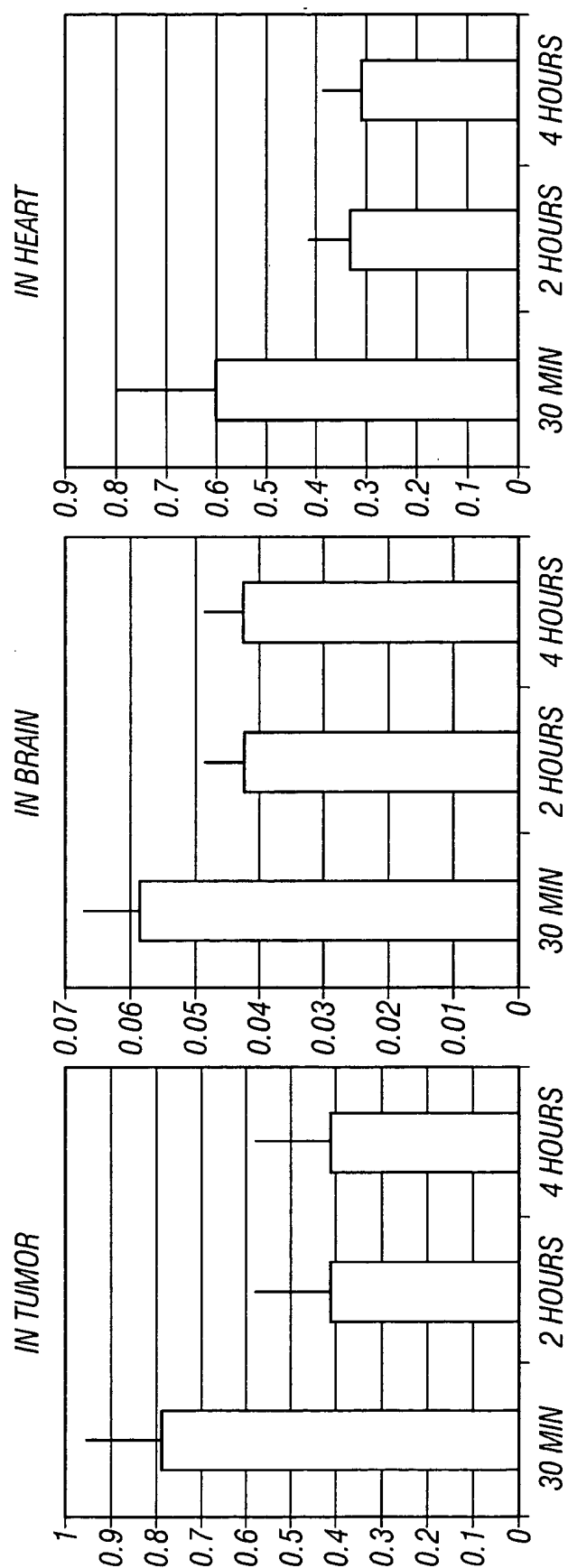


FIG. 78

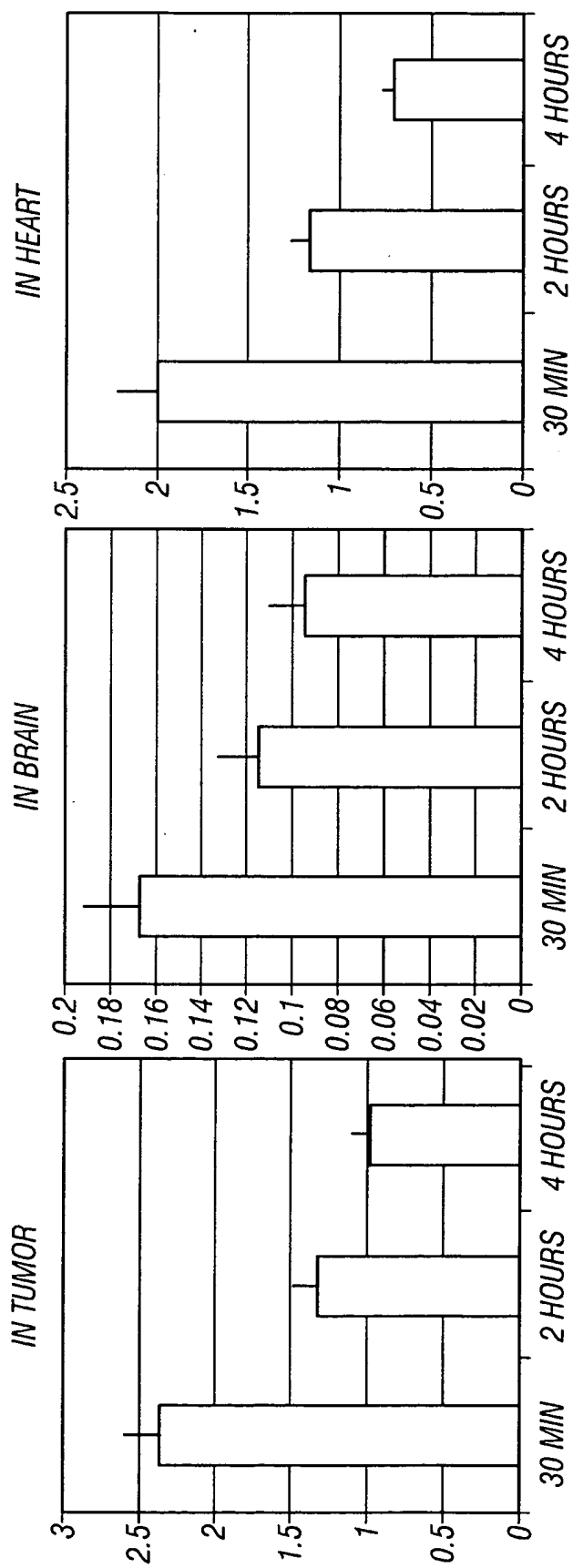


FIG. 79

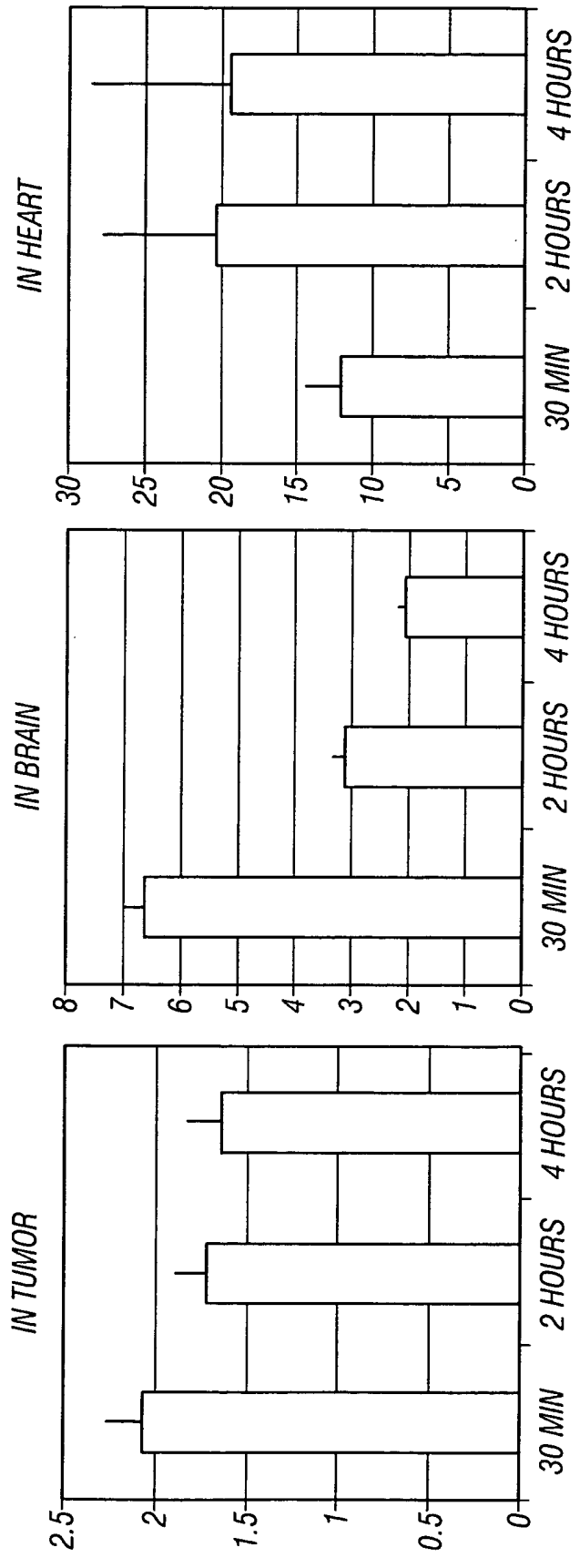


FIG. 80

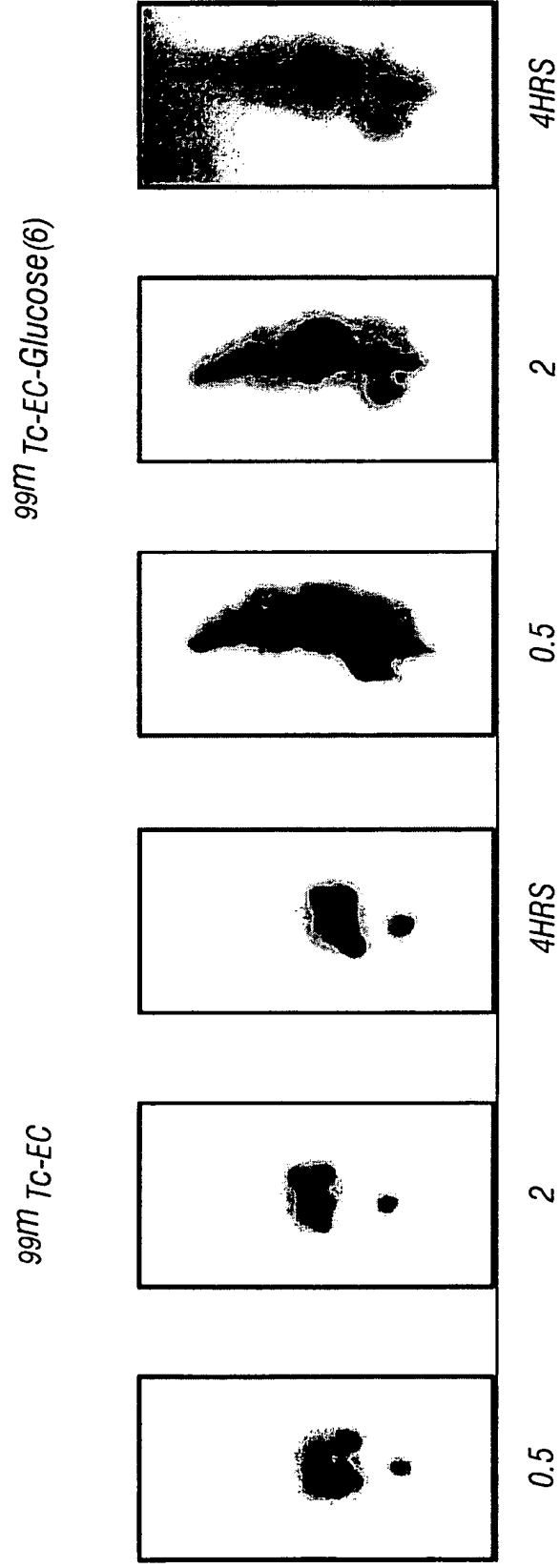
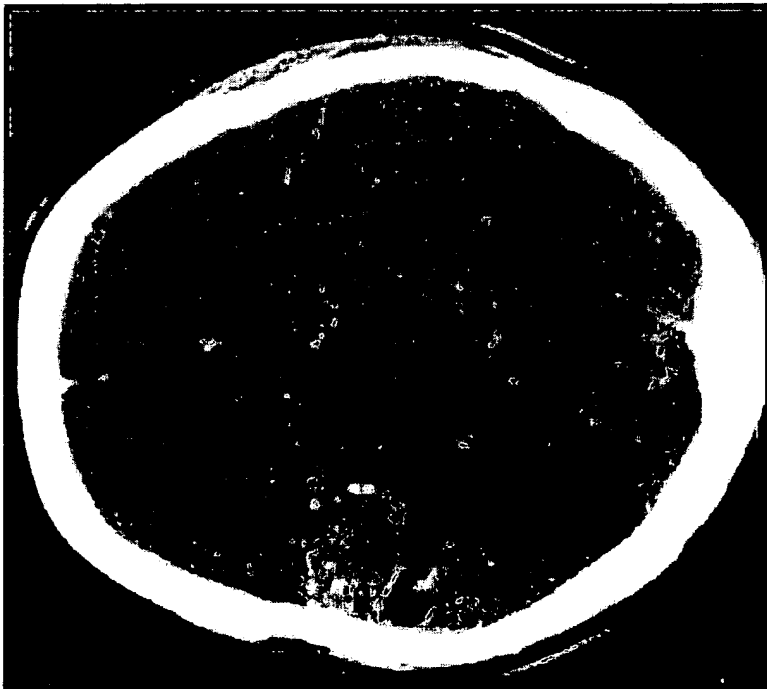
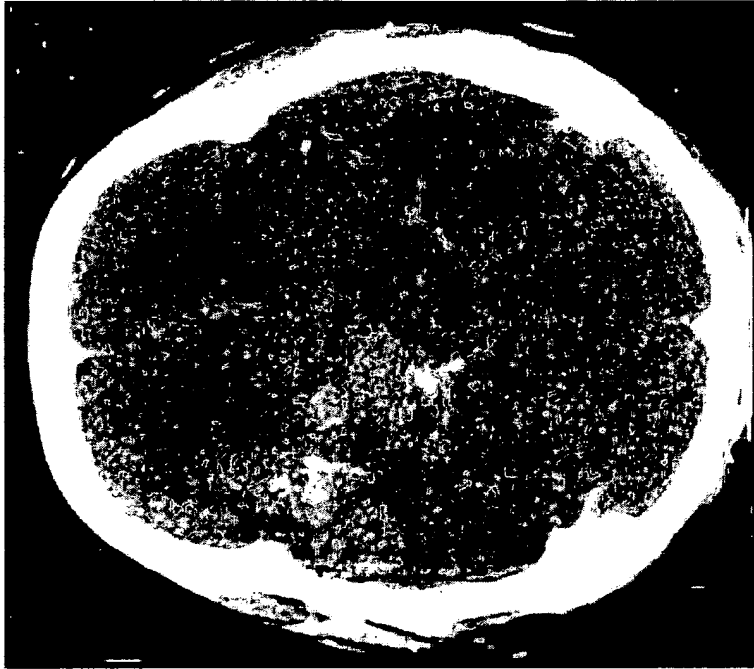


FIG. 81



PRE OP



POST OP

FIG. 82A

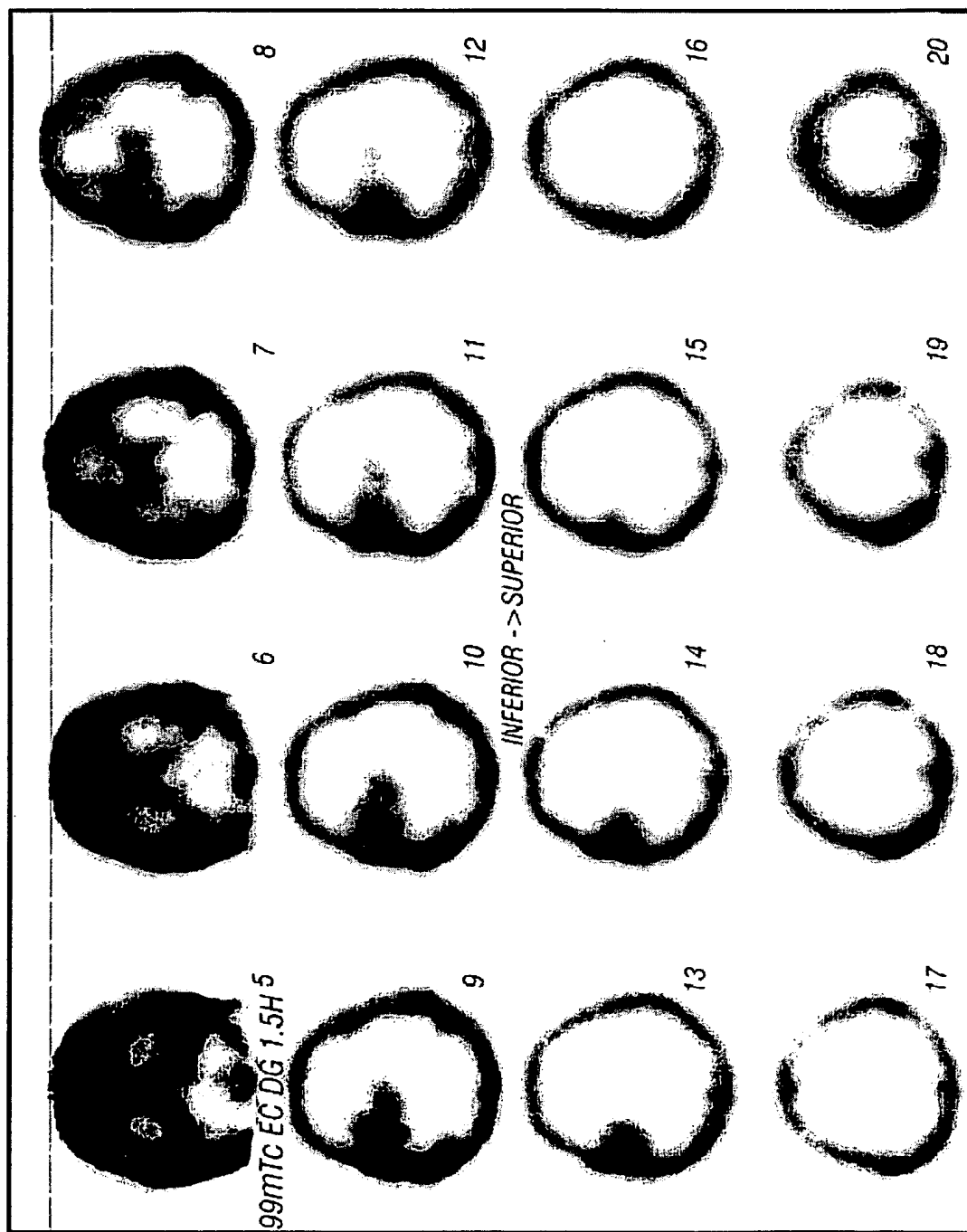
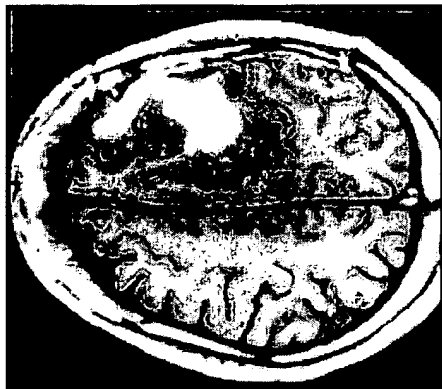
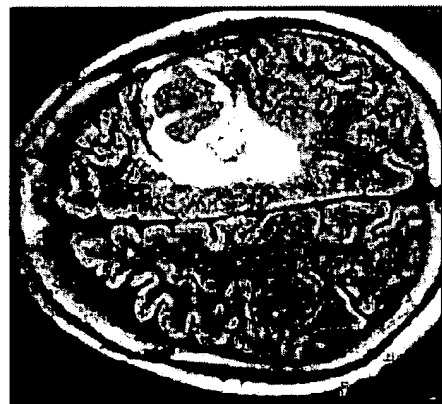


FIG. 82B



PRE-OP

POST-OP

FIG. 83A

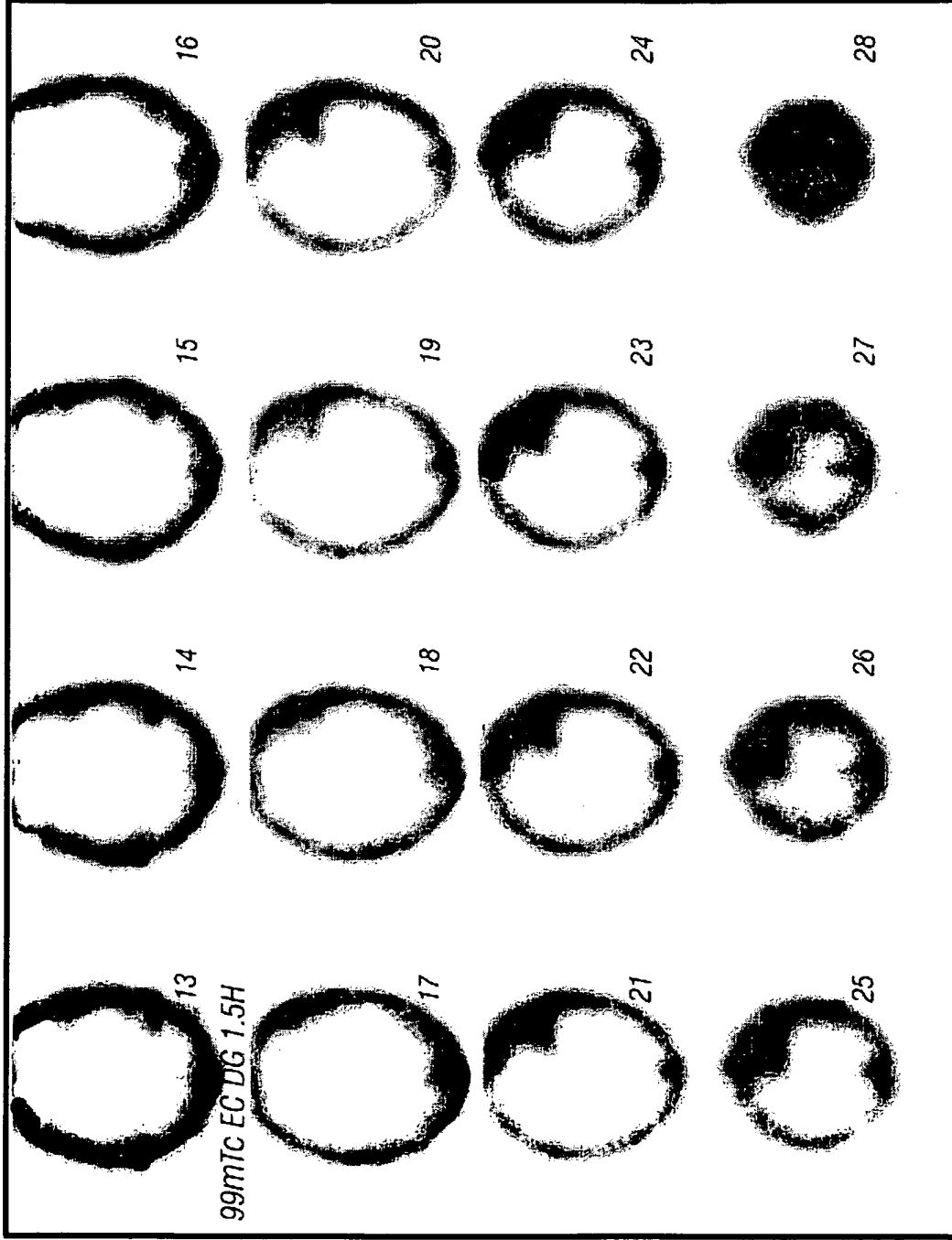


FIG. 83B

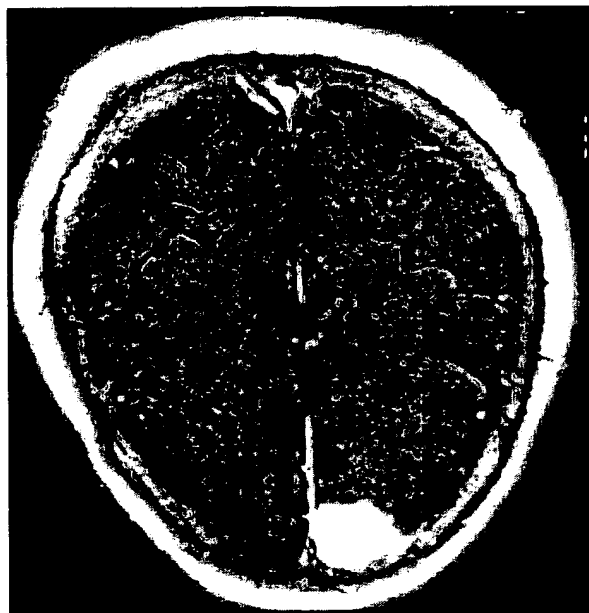


FIG. 84A



FIG. 85A

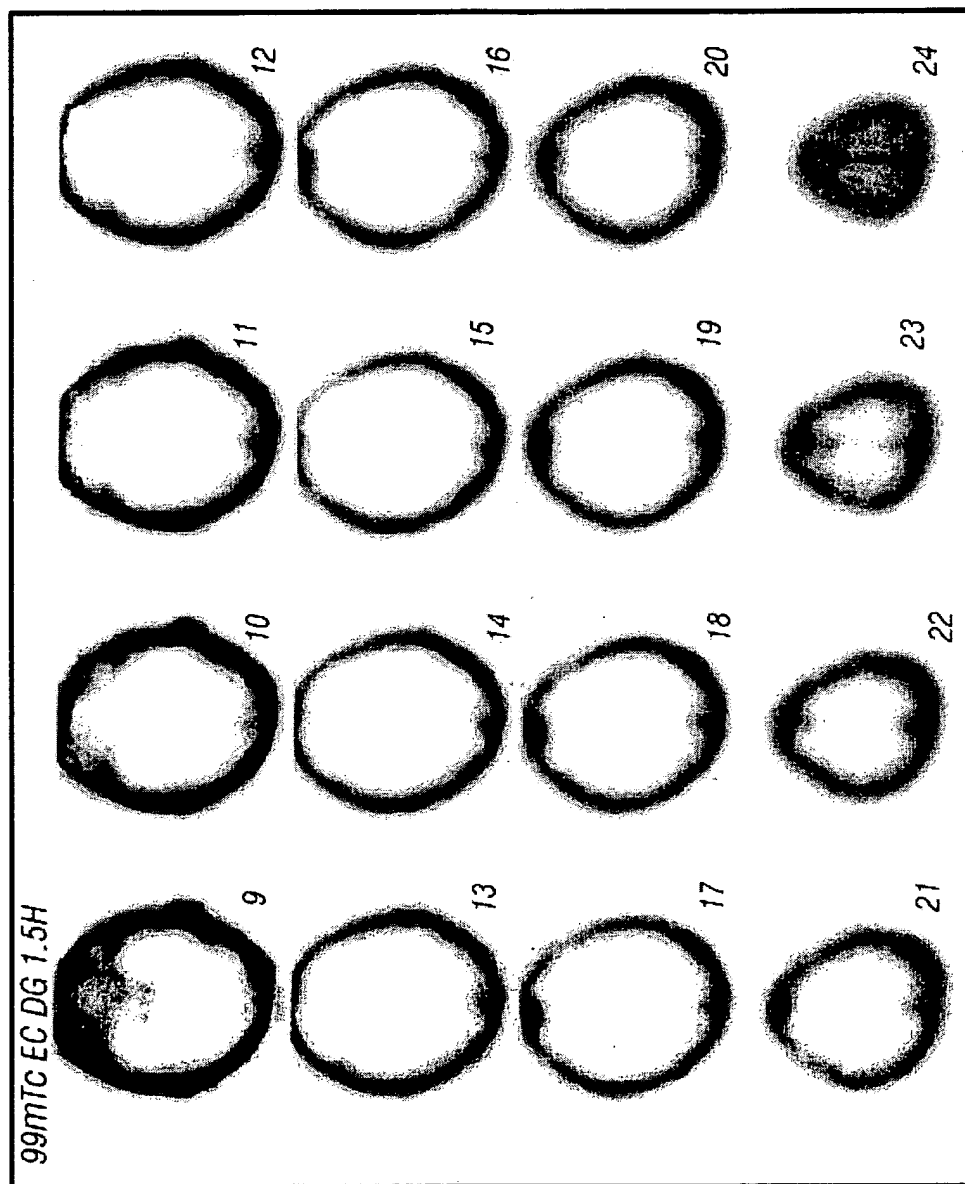


FIG. 84B

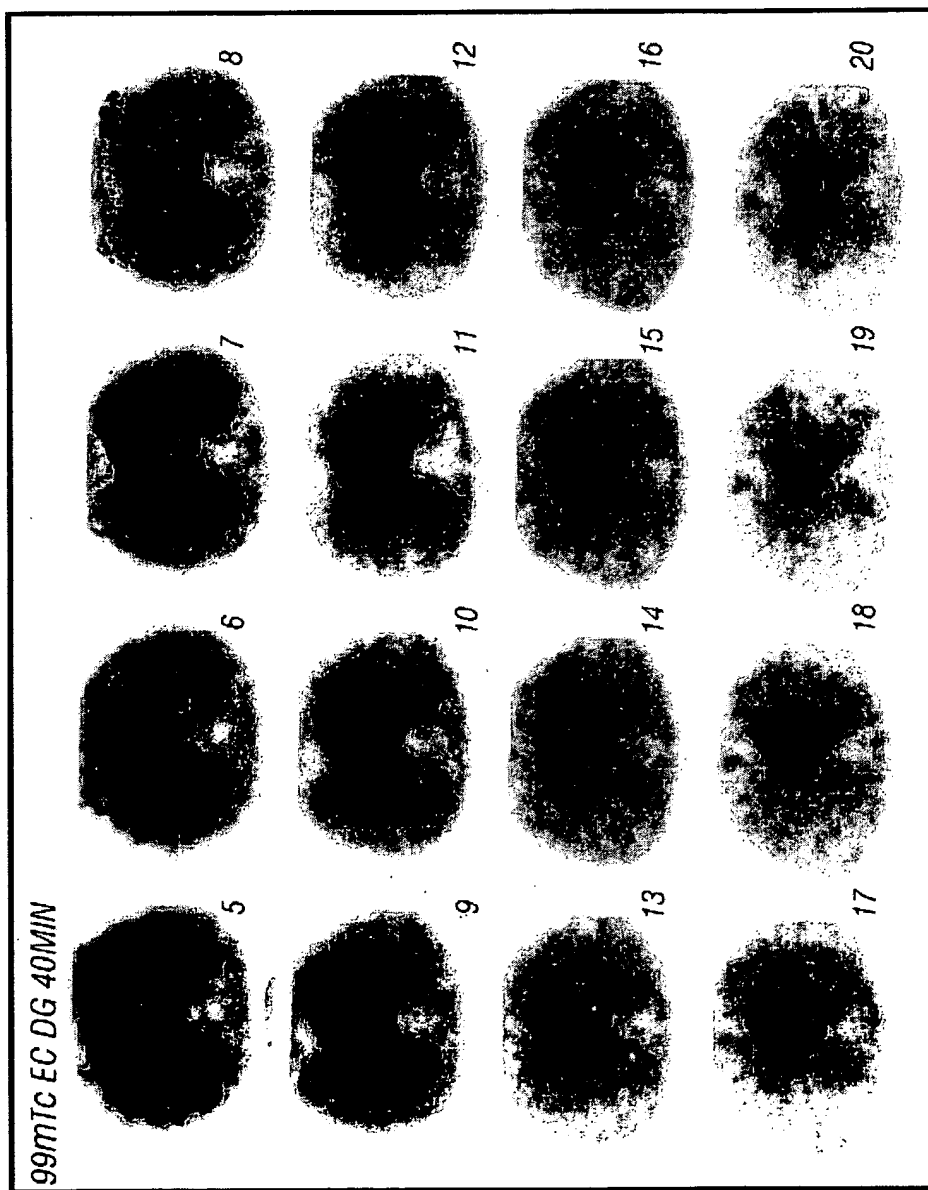
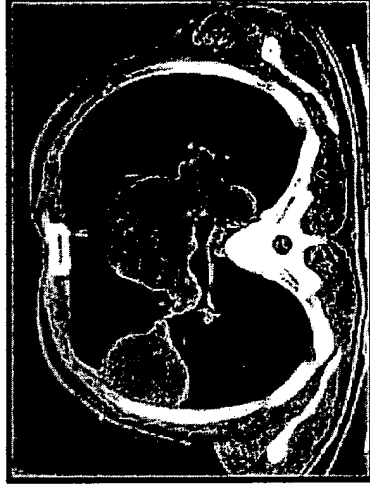


FIG. 85B



PRE RTX



POST RTX



POST RTX



PRE RTX

FIG. 86A

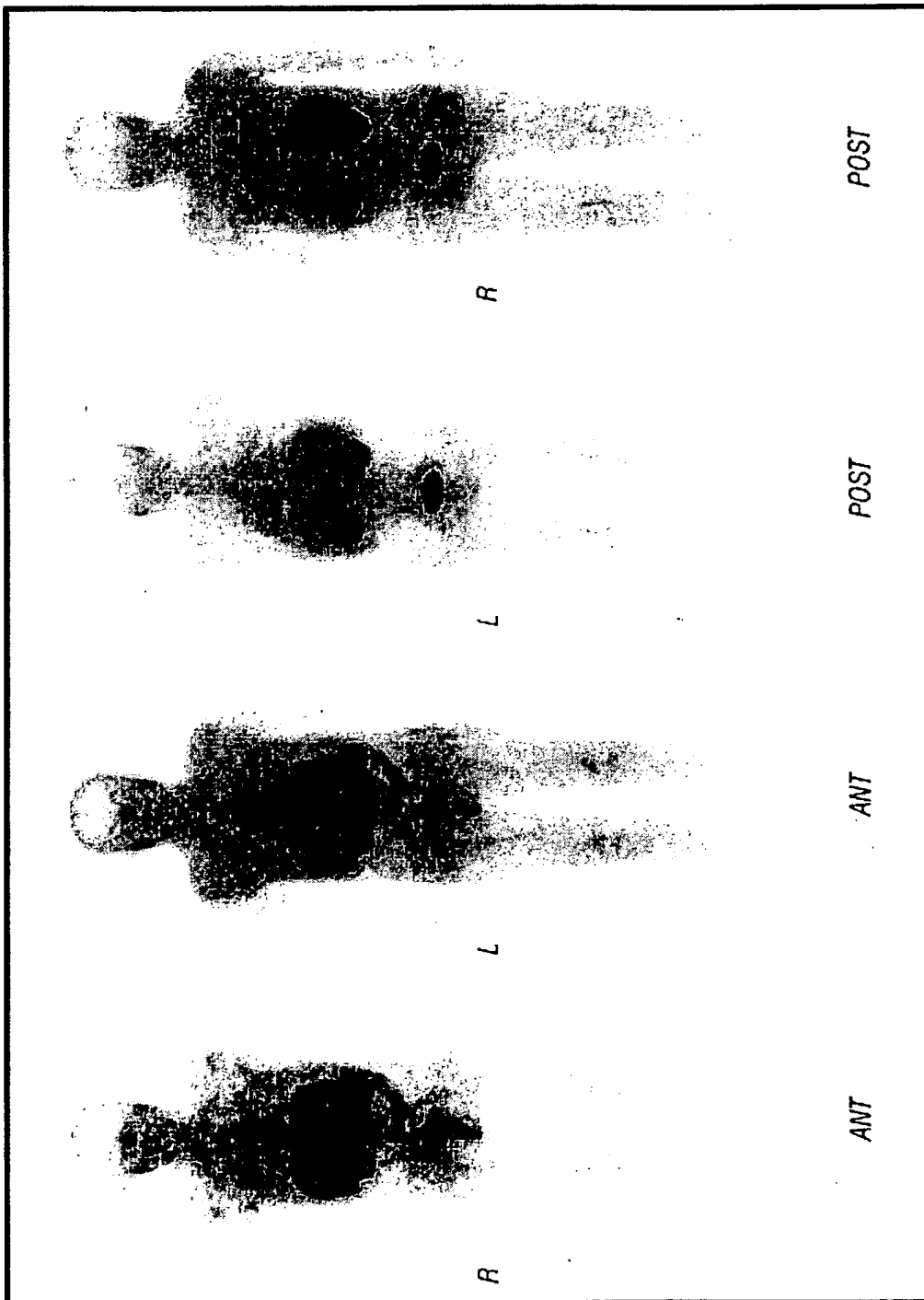


FIG. 86B

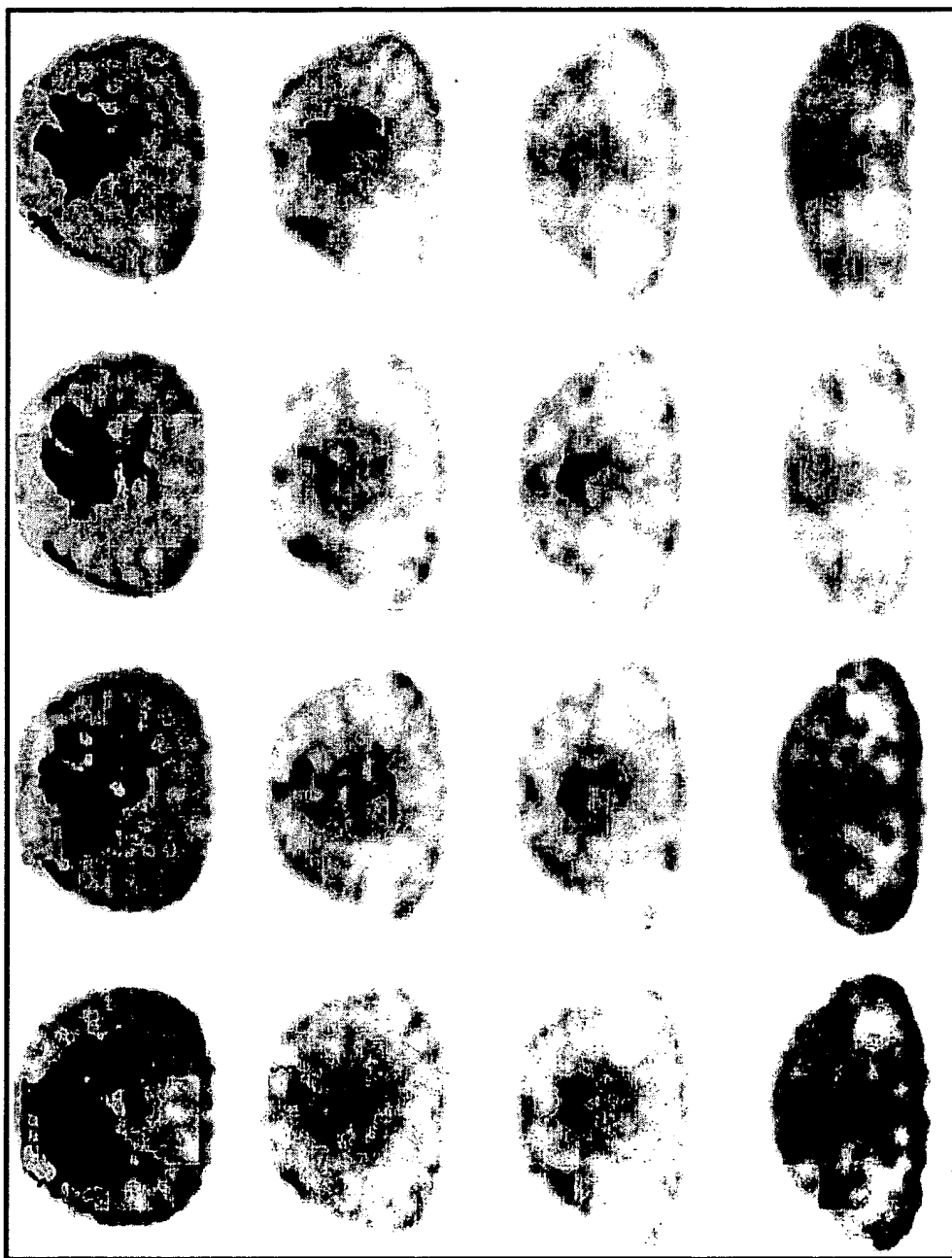


FIG. 86C

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